

# **Quarterly report, third quarter 2018**

RCRA Corrective Action Program Boeing Renton Facility Project # 0088880100.2018 The Boeing Company

Prepared for:

The Boeing Company Seattle, Washington

November 15, 2018



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#### Prepared by:

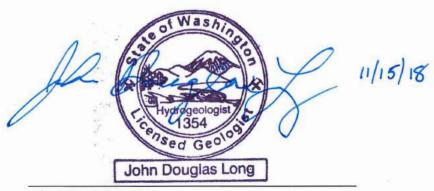
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#### November 15, 2018

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#### Wood Environment & Infrastructure Solutions, Inc.



John Long, L.G., L. Hg. Licensed Geologist/Hydrogeologist #1354 Expiration Date: May 23, 2019





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# 1.0 Introduction

This report provides progress reporting in conformance with Section VII.B.1 of Agreed Order No. 8191 (Order) and summarizes cleanup actions and monitoring conducted at the Boeing Renton Facility (the Facility) during the third quarter 2018. This work is required under the Resource Conservation and Recovery Act (RCRA) Corrective Action Program being performed at the Boeing Renton Facility in Renton, Washington. Corrective action activities are performed for those solid waste management units (SWMUs), areas of concern (AOCs), and other areas where cleanup actions are ongoing. Monitoring, cleanup activities, and reporting are being conducted as part of the final remedy implementation described in the Engineering Design Report (EDR) (AMEC, 2014). The groundwater monitoring program is detailed in the Addendum to the Compliance Monitoring Plan (Amec Foster Wheeler, 2017) which contains changes to the revised Compliance Monitoring Plan (AMEC, 2014).

Groundwater monitoring and final cleanup action implementation are being conducted at the following areas (the ongoing remedies for each of these areas are noted in parentheses):

- SWMU-168: (monitored natural attenuation [MNA]);
- SWMU-172 and SWMU-174: (bioremediation, soil vapor extraction [SVE] and monitored attenuation [MA]);
- Building 4-78/79 SWMU/AOC Group: (bioremediation, SVE, MNA, and MA);
- Former Fuel Farm AOC Group: (MNA);
- AOC-001 and AOC-002: (bioremediation and MA);
- AOC-003: (bioremediation and MA);
- AOC-004: (bioremediation and MA);
- AOC-034 and AOC-035: (MNA);
- AOC-060: (bioremediation and MA);
- AOC-090: (bioremediation and MA);
- Building 4-70: (bioremediation and MA);
- Lot 20/Former Building 10-71 Parcel: (bioremediation and MA); and
- Apron A: (bioremediation and MA).

The background and investigation history for each affected unit or group of units is described in the Cleanup Action Plan (CAP) (AMEC, 2012) and/or EDR (AMEC, 2014). It should be noted that monitoring for the Building 10-71 area and Building 4-70 area is included in this monitoring report to maintain continuity with the monitoring program that has been conducted for these areas for several years and as approved by the Washington State Department of Ecology (Ecology); these two areas are not addressed explicitly in the Compliance Monitoring Plan but are being addressed per Ecology's December 30, 2015, email to Boeing with comments on the revised Compliance Monitoring Plan. Monitoring for Apron A is also included, as semiannual monitoring began in this area starting in the fourth quarter of 2016, as reported in the Apron A Investigation Results report (Amec Foster Wheeler, 2016b).

This quarterly report:

- Describes work completed during the reporting quarter;
- Describes any deviations from corrective action tasks required under the Order and/or CAP;
- Describes revisions to the corrective action schedule;
- Describes work projected to occur during the next quarter, including any planned deviation from the CAP;
- Discusses remediation operation and maintenance activities conducted at the Facility during the reporting period;
- Documents monitoring activities conducted during the quarter;
- Describes and discusses trends in monitoring data;
- Assesses remediation at each area; and
- Assesses attainment of cleanup levels (CULs) at the conditional points of compliance (CPOCs).

This report presents this information for the third quarter of 2018—the period from July through September 2018.

#### **1.1 Quarterly progress reporting**

In accordance with the requirements of the Order, corrective action activities were conducted at the Facility, as described in this report. As approved by Ecology in their letter dated November 18, 2015, progress reporting is conducted on a quarterly basis in conjunction with monitoring, operations, and maintenance activities conducted under the CAP.

#### **1.1.1** Work completed in the third quarter 2018

The following work was completed during the third quarter of 2018, the period from July through September 2018:

- On behalf of Boeing, Wood submitted the second quarter 2018 report to Ecology on August 15, 2018.
- Groundwater monitoring for the third quarter of 2018 was completed during August 2018.
- A fourth round of nitrate/sulfate injections was completed in Building 4-78/79 injection wells B78-11, B78-13, and B78-17 through B78-21 in July 2018. Groundwater samples were collected from these injection wells and from monitoring wells GW244S and GW031S in September 2018.
- Substrate injections were performed in July 2018 at SWMU 172/174, Building 4-78/79, AOC-60, and AOC-90.

#### 1.1.2 Deviations from required tasks

No deviations from tasks required in the Order occurred during this activity period.

#### **1.1.3** Deviations from CAP

There were no deviations from the CAP during this activity period, and there are no planned deviations from the CAP expected for the next activity period.



#### **1.1.4** Schedule revisions

There were no significant revisions to the schedule for this reporting period and no revisions are expected for the next activity period.

#### **1.1.5** Work projected for the next quarter

The following work is projected for the fourth quarter of 2018:

- Reporting will be completed in accordance with the Order, CAP, EDR, Addendum to the Compliance Monitoring Plan, and any changes approved by Ecology.
- Groundwater sampling and analysis for the fourth quarter of 2018 will be completed.

# 2.0 Groundwater sampling methodology

Groundwater was sampled and analyzed as described in Appendix A. These procedures are in accordance with the methods specified in the soil and groundwater sampling methodology, which is described in more detail in the revised Compliance Monitoring Plan (Amec Foster Wheeler, 2016a). Table A-1 summarizes the current groundwater monitoring program and constituents of concern (COCs) specified in the CAP and revised in the Addendum to the Compliance Monitoring Plan (Amec Foster Wheeler, 2017) for all Facility corrective action areas. Table A-1 also includes Building 4 70, Lot 20/Former Building 10-71, and Apron A, which were not included in the CAP. Table A-2 summarizes the current groundwater monitoring program for the corrective action areas that include MNA or MA as part of the cleanup remedy specified in the CAP. Table A-2 also includes Building 4 70 and Apron A, which were not specified in the Sampling or analytical methods cited in Appendix A during the quarter are described in the applicable subsections in Section 3. The field data sheets, which document the groundwater sample collection and field parameter monitoring for each well sampled during this quarter, are included in Appendix B.

The analytical methods, field duplicate, lab duplicate, and matrix spike/matrix spike duplicate frequencies are specified in the Quality Assurance Project Plan (Amec Foster Wheeler, 2016c). The full analytical reports provided by the laboratory are provided separately on compact disc. The data validation memoranda are included in Appendix C.

# **3.0** Corrective action activities completed during quarter

This section describes the corrective action activities conducted at the Facility during the third quarter of 2018. Operation of the SVE systems at the SWMU-172/174 and Building 4-78/79 areas continued during the third quarter, as discussed in Sections 3.2.1.2 and 3.3.1.2. Quarterly compliance monitoring was also conducted in accordance with the Addendum to the Compliance Monitoring Plan (Amec Foster Wheeler, 2017).

#### 3.1 SWMU-168

This section describes corrective action activities conducted at this SWMU. Figure 1 shows the location of the groundwater monitoring wells at SWMU-168, as well as the groundwater elevations measured during this monitoring event. The cleanup remedy for SWMU-168 is MNA; therefore, cleanup activities consist of monitoring only.

#### 3.1.1 Cleanup action activities

No installation/construction activities were conducted for this cleanup action area during the third quarter.

#### 3.1.2 Compliance monitoring plan deviations

No deviations from the Compliance Monitoring Plan occurred for this area during the third quarter.

#### 3.1.3 Water levels

Groundwater elevations measured during the third quarter 2018 groundwater monitoring event at SWMU 168 are summarized in Table 1 and shown on Figure 1. Groundwater elevation contours are not shown due to the limited number of shallow groundwater monitoring wells.

#### 3.1.4 Groundwater monitoring results

Results for primary geochemical indicators are presented in Table 2; results for the SWMU-168 COCs are presented in Table 3. Groundwater in this area is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A, which includes semiannual monitoring at the CPOC for both the area COCs and the primary geochemical indicators listed in Table A-2.

#### 3.1.4.1 Natural attenuation/geochemical indicators

The geochemical indicator results are presented in Table 2. Data from the CPOC wells indicate that conditions are conducive to natural attenuation of vinyl chloride (VC) in this SWMU. The results for dissolved oxygen (DO) and oxidation reduction potential (ORP) measurements indicate reducing conditions. The pH values measured in all wells were near neutral.

#### 3.1.4.2 COC results for source area

Groundwater samples were not collected from the source area well for SWMU-168, following the sampling schedule presented in Tables A-1 and A-2.

#### 3.1.4.3 COC results for conditional point of compliance area

Monitoring results for the CPOC area monitoring wells are shown in Table 3. VC was detected in the groundwater collected from CPOC wells GW230I and GW231S at an estimated concentration of 0.140 and

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0.0326 micrograms per liter ( $\mu$ g/L), respectively. The concentration of VC detected in the groundwater collected from CPOC well GW230I was above the CUL of 0.11  $\mu$ g/L.

#### 3.2 SWMU-172 and SWMU-174

This section describes corrective action activities conducted at these two SWMUs. The cleanup remedy for SWMU-172 and SWMU-174 is a combination of SVE, bioremediation, and MA. Figure 2 shows the layout of the groundwater monitoring and remediation system for these SWMUs.

## 3.2.1 Cleanup action activities

#### 3.2.1.1 Installation/construction activities

No installation/construction activities were conducted for these SWMUs during the third quarter. Substrate injections were performed between July 23 and 25, 2018 at SWMU-172 and -174.

#### 3.2.1.2 Soil vapor extraction and bioremediation operations

After rebound testing of the SVE system at SWMU-172 and SWMU-174 during the first quarter and soil COC sampling during the second quarter, it was determined that the SVE system should be restarted to achieve soil and groundwater concentrations below the CULs. The SVE system was restarted during the second quarter, on June 20, 2018. Details for system operations are included in the SVE operations and monitoring report prepared by Calibre and included as Appendix D.

#### 3.2.2 Compliance monitoring plan deviations

No deviations from the Compliance Monitoring Plan occurred for this area during the third quarter.

#### 3.2.3 Water levels

Groundwater elevations for the SWMU-172 and SWMU-174 area measured during the third quarter 2018 are summarized in Table 4 and shown on Figure 2. The contoured data for August 2018 show that groundwater is generally flowing east from SWMU-172 and SWMU-174, toward the Cedar River Waterway, with an approximate horizontal gradient of 0.008.

#### 3.2.4 Groundwater monitoring results

Groundwater at this area is monitored following the schedules presented in Tables A-1 and A-2 in Appendix A. Results for primary geochemical indicators are presented in Table 5; results for the SWMU-172 and SWMU-174 area COCs are presented in Table 6.

#### 3.2.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 5. Total organic carbon (TOC) concentrations ranged from 10,860 milligrams per liter (mg/L) to 0.76 mg/L for all SWMU-172 and SWMU-174 monitoring wells. Substrate injection was performed in SWMU-172 and SWMU-174 wells between July 23 and 25, 2018, as reflected in the high TOC values and low pH values, particularly in source area wells GW152S and GW153S. The other natural attenuation parameter results indicate that geochemical conditions were generally uniform and appropriate for reductive dechlorination of chlorinated volatile organic compounds (VOCs); the DO and ORP indicate reducing conditions were present.

#### 3.2.4.2 COC results for source and downgradient plume areas

Table 6 lists third quarter 2018 analytical results for the SWMU-172 and SWMU-174 COCs. Figure 3 shows historical trend plots for tetrachloroethene (PCE), trichloroethene (TCE), VC, and *cis*-1,2-dichloroethene (*cis*-1,2-DCE) in source area wells GW152S and GW153S. Historical trend plots for PCE, TCE, VC, and *cis*-1,2-DCE in downgradient plume area wells GW172S and GW173S are shown in Figure 4. Flow generally moves from the vicinity of source area well GW152S to downgradient plume area well GW172S, and from source area well GW153S to downgradient plume area well GW173S. PCE and TCE are the chlorinated solvents that were used at the Facility, and *cis*-1,2-DCE and VC are breakdown products resulting from biodegradation processes.

As shown in Table 6, *cis*-1,2-DCE, TCE, PCE, and VC concentrations exceeded the CULs in the groundwater collected from both source area and downgradient plume area wells. As shown in Figure 3, the concentrations of COCs in groundwater from source area wells generally increased during 2018. As shown in Figure 4, COC concentrations increased in the groundwater samples collected from downgradient plume area wells GW172S and GW173S during the third quarter, except for PCE, *cis*-1,2-DCE, and VC in the groundwater from downgradient well GW172S and PCE in the groundwater from downgradient well GW173S. Even with the increases in concentrations observed during the third quarter, the concentrations are within the range of concentrations observed over the last two years.

Arsenic was detected above the CUL in all source area and downgradient plume area wells. As shown in Figure 5, the arsenic concentrations in the groundwater from both source area and downgradient wells increased during the third quarter sampling event. The field notes for the sample from GW152S describe the sample as "gray and turbid strong odor". This same sample also indicated an order-of-mangnitude increase in copper and lead concentrations relative to the last quarter of sampling. The observed variations for concentrations of inorganics may be influenced by the naturally occurring reducing conditions or other factors such as turbidity in the sample. Samples from this well should be further evaluated in the next round of sampling including both total and dissolved analysis for these metals..

#### 3.2.4.3 COC results for conditional point of compliance area

Results from the CPOC area wells are presented in Table 6 and trend charts for *cis*-1,2-DCE, TCE, and VC for all CPOC area wells are presented in Figure 6. As shown in Table 6, *cis*-1,2-DCE was detected at concentrations above the CUL, ranging from 0.0427 to 0.489 µg/L, in the groundwater collected from all CPOC area wells; TCE was detected above the CUL in the groundwater from CPOC well GW235I; and VC was detected above the CUL in the groundwater from CPOC well GW235I; and VC was detected from the CPOC wells and is not shown on Figure 6. As shown on Figure 6, concentrations of *cis*-1,2-DCE have exceeded the CUL in the CPOC wells since compliance monitoring began, but are generally stable and are of low concern due to the low toxicity of *cis*-1,2-DCE and associated lack of surface water quality standard for this constituent. The concentrations of TCE and VC in the CPOC wells also generally appear to be stable.

Arsenic was detected above the CUL in the groundwater samples from CPOC area wells GW232S, GW234S, and GW236S. Copper and lead were not detected above their respective CULs in the groundwater from the CPOC wells (Table 6). Figure 7 shows arsenic, copper, and lead trends since the beginning of compliance monitoring in groundwater samples from the CPOC wells. As shown in Figure 7, though arsenic, copper and lead concentrations appear to vary over time, there are no increasing trends in the groundwater collected from CPOC wells.

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#### 3.3 Building 4-78/79 SWMU/AOC group

This section describes corrective action activities conducted at the Building 4-78/79 SWMU/AOC Group during the third quarter of 2018. The cleanup remedy for this SMWU/AOC group is bioremediation, SVE, MNA, and MA. Figure 8 shows the location of groundwater monitoring wells, bioremediation wells, and SVE wells for this area.

## **3.3.1** Cleanup action activities

#### 3.3.1.1 Installation/construction activities

No installation/construction activities were conducted for this cleanup action area during the third quarter. Substrate injections were perfored between July 16 and 18, 2018 at Bldg. 4-78/79.

#### 3.3.1.2 Soil vapor extraction and bioremediation operations

The SVE system at Building 4-78/79 SWMU/AOC Group was shut down during the first quarter, during which rebound testing was implemented. Soil samples were collected during the second quarter to assess the attainment of soil CULs, and results were reported in the second quarter monitoring report (Wood, 2018). On October 18, 2018, Boeing submitted a formal request for approval of the shutdown of the SVE system at Building 4-78/79 SWMU/AOC Group. Further details are included in the SVE operations and monitoring report prepared by Calibre and included as Appendix D.

A fourth round of nitrate/sulfate injections was performed in July 2018, and groundwater samples were collected from the injection wells and monitoring wells in September 2018. The results of the performance monitoring are shown in Table 3-1 of Appendix D. Concentrations of benzene and *cis*-1,2-DCE in the groundwater from all injection wells related to ongoing benzene treatment in this area are shown in Figure 9. As shown in Table 3-1 of Appendix D, benzene concentrations in groundwater samples collected from injection and monitoring wells ranged from below the reporting limit of 0.20 µg/L to 9.20 µg/L. The benzene concentrations detected in September 2018 were below the baseline concentrations in four of the five injection wells, with current concentration reductions at approximately 70-89 percent of the baseline results at these wells, indicating biodegradation of benzene is occurring. Concentrations of nitrate were below detection limits in each of the wells during the September sampling event, while sulfate concentrations began reducing in most wells, with detections ranging from 0.113 mg/L to 23.4 mg/L. Trend charts for TCE and VC during injection events are presented in Figure 10.

The three benzene treatment injection events completed prior to July 2018 were implemented utilizing low target concentrations of nitrate and sulfate applied to each of the injection wells with concentrations of 100, 200, and 400 mg/L in October 2017, January 2018, and April 2018, respectively. The reagent concentration for the July treatment injection event was 800 mg/L for nitrate and 400 mg/L for sulfate to provide additional nitrate and sulfate to the affected area due to the rapid reaction time observed during previous injection events. More detail is provided in Appendix D.

#### 3.3.2 Compliance monitoring plan deviations

No deviations from the Compliance Monitoring Plan occurred for this area during the third quarter.

#### 3.3.3 Water levels

Groundwater elevations measured during the third quarter 2018 groundwater monitoring event at the Building 4-78/79 SWMU/AOC group are summarized in Table 7 and shown on Figure 8. The approximate direction of groundwater flow from the source area is generally to the west, with a hydraulic gradient of 0.0004.

#### 3.3.4 Groundwater monitoring results

Results for primary geochemical indicators are presented in Table 8; results for the COCs for Building 4-78/79 SWMU/AOC Group are presented in Table 9. Groundwater at this area is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A.

#### 3.3.4.1 Natural attenuation/geochemical indicators

The geochemical indicator results are presented in Table 8. In general, source area, downgradient, and CPOC area wells had low levels of DO and ORP, indicating that reducing conditions are present over the area and are generally favorable for reductive dechlorination of chlorinated VOCs. The pH in all monitoring wells was near 6 standard units during the third quarter monitoring period. Results for the other primary geochemical indicators were fairly consistent throughout this area.

#### 3.3.4.2 COC results for source and downgradient plume areas

Table 9 lists third quarter 2018 analytical results for the Building 4-78/79 SWMU/AOC Group COCs. The CULs established in the CAP are also presented on Table 9. Figures 11 and 12 are trend charts showing historical trends for COCs for in source and downgradient plume area groundwater monitoring wells that have a history of frequent detections. Trend charts have not been prepared for groundwater monitoring wells or COCs that do not have a history of frequent detections.

As shown in Table 9, benzene, *cis*-1,2-DCE, and VC were detected in groundwater samples from several source area wells at concentrations above their respective CULs, except for groundwater from source area well GW039S, which had concentrations below detection for all COCs. TCE was below detection in the groundwater from all source area wells. Total petroleum hydrocarbons in the gasoline range (TPH-G) was detected in the groundwater from source area well GW031S, at a concentration of 1,640  $\mu$ g/L (the field duplicate concentration was 1,740  $\mu$ g/L). TPH-G was also detected in the groundwater from source area well GW033S at a concentration below the CUL.

Benzene was detected at a concentration of 0.28 µg/L in the groundwater collected from downgradient plume area well GW210S. No other COCs were detected in the groundwater collected from the downgradient plume area wells. Benzene has been sporadically detected in the groundwater samples from GW210S and the concentration observed during the third quarter is consistent with historical concentrations of benzene in the groundwater from this well.

Figure 11 shows trends for selected COCs for source area wells GW031S and GW033S and Figure 12 shows trends for selected COCs for source area well GW034S and downgradient plume area well GW209S. COC concentrations in the groundwater collected from GW031S are generally consistent with historical results and trends, except benzene, which has decreased in concentration during 2018. The concentration of benzene in the groundwater collected from source area well GW033S is generally consistent with historical results, and may be slightly increasing (from 12.8  $\mu$ g/L to 13.3  $\mu$ g/L). The concentrations of *cis*-1,2-DCE, TCE, and VC in this well decreased during the third quarter 2018 sampling event. COC concentrations in groundwater samples collected from source area well GW034S (Figure 12) are stable. Nitrate and sulfate injections described in Appendix D are continuing to be performed to address elevated benzene present between GW210S and GW031S.

Figure 12 shows a trend chart for downgradient plume area well GW209S, which was installed in 2008 and is located west of Building 4-79. Monitoring results for all COCs are stable in the groundwater collected from GW209S, with concentrations either not detected or detected at concentrations just above the reporting limit of 0.2  $\mu$ g/L.

#### 3.3.4.3 COC results for conditional point of compliance area

Groundwater monitoring results from the third quarter for the CPOC area are summarized in Table 9. Trends for CPOC wells GW143S, GW237S and GW240D are shown in Figures 13 through 15. Benzene was not detected in any of the groundwater samples collected from CPOC wells for the first time since August 2017. As shown in Figure 13, benzene has been sporadically detected in the groundwater from CPOC well GW237S but has not been detected in the groundwater samples from any other CPOC wells at concentrations above the CUL. *Cis*-1,2-DCE and TCE were detected in the groundwater collected from CPOC well GW143S. As shown in Figures 13 and 14, the concentration of *cis*-1,2-DCE does not exceed the CUL but the TCE concentration does, as it has sporacially in the groundwater from CPOC well GW143S. VC was detected the groundwater samples collected from CPOC wells GW237S and GW240D above the CUL at concentrations of 0.28 and 0.23 µg/L, respectively. As shown in Figure 14, the VC concentrations in CPOC area wells GW237S and GW240D are consistent with historical results. The only other COC detected in the groundwater samples from the CPOC area during the third quarter was TPH-G at a concentration of 499 µg/L in the sample from CPOC well GW237S. As shown in Figure 15, TPH-G concentrations in the groundwater from CPOC GW237S appear to flucuate seasonally.

#### 3.4 Former fuel farm AOC group

The final remedy for the Former Fuel Farm is MNA. The Former Fuel Farm AOC group is monitored semiannually in May and November; therefore, no monitoring was conducted for this area during the third quarter of 2018.

#### 3.5 AOC-001 and AOC-002

This section describes corrective action activities conducted at these AOCs during third quarter of 2018. The cleanup remedy for this corrective action area is bioremediation and MA. Bioremediation commenced for this area in late 2004, following source area excavation. Figure 16 shows the location of groundwater monitoring wells and the bioremediation injection system for AOC-001 and AOC 002, as well as the groundwater elevations measured during this monitoring event.

#### 3.5.1 Cleanup action activities

No construction or operations work was conducted for these AOCs during the third quarter.

#### 3.5.2 Compliance monitoring plan deviations

No deviations from the Compliance Monitoring Plan occurred for this area during the third quarter.

#### 3.5.3 Water levels

Table 10 presents the groundwater elevations measured during the third quarter 2018 monitoring event at AOC-001 and AOC-002. Figure 16 shows the groundwater elevations from this event. The average elevation of Lake Washington was not available from the U.S. Army Corps of Engineers Northwestern Division website. Third quarter 2018 data indicate that groundwater in the vicinity of these AOCs was flowing west, toward Lake Washington, with an approximate horizontal hydraulic gradient of 0.008.



#### 3.5.4 Groundwater monitoring results

Groundwater in this area is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A. Results for primary geochemical indicators are presented in Table 11; results for the AOC-001 and AOC-002 COCs are presented in Table 12.

#### 3.5.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 11. The pH was near neutral in all CPOC wells and is conducive to microbial activity. Table 11 also suggests that geochemical conditions are appropriate for reductive dechlorination of the COCs in the AOC-001 and AOC-002 CPOC area, as indicated by the reducing conditions, low DO levels, and generally appropriate TOC concentrations.

#### 3.5.4.2 COC results for source and downgradient plume areas

The analytical results for the AOC-001 and -002 COCs are summarized in Table 12. Concentrations of 1,1-dichloroethene and benzene were below CULs in all AOC-001/002 source area and downgradient plume wells in the third quarter. *Cis*-1,2-DCE was detected at concentrations above the CUL in the groundwater collected from all source and downgradient wells, except for from downgradient plume well GW191D. VC was detected at concentrations above the CUL in the groundwater collected from all source anging from 0.113 to 1.120 µg/L. TCE was detected in the groundwater collected from source area well GW193S at a concentration of 0.0472 µg/L, above the CUL, and was also detected above the CUL in the groundwate from downgradient plume area well GW192S.Trend plots for TCE, VC, and *cis*-1,2-DCE in source area well GW193S, and *cis*-1,2-DCE and VC in downgradient plume well GW190S are shown in Figure 17. The concentrations of the COCs in the groundwater from these wells have been relatively stable during the 2018 monitoring events. Figure 18 presents the trends for VC and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S, and TCE, VC, and *cis*-1,2-DCE in downgradient plume wells GW192S and GW246S have also remained stable.

#### 3.5.4.3 COC results for conditional point of compliance area

As shown in Table 12, 1,1-dichloroethene, benzene, and TCE concentrations in the groundwater samples collected from CPOC wells were either below detection or below the CUL. Concentrations of *cis*-1,2-DCE were above the CUL in the groundwater samples from all CPOC area wells except for GW194S. Concentrations of *cis*-1,2-DCE in groundwater from the CPOC wells ranged from 0.0229 µg/L to 0.217 µg/L, all above the CUL of 0.02 µg/L. VC was detected above the CUL of 0.05 µg/L in groundwater samples from CPOC wells GW185S and GW195S. As shown in Figure 19, aside from the increase in concentrations of *cis*-1,2-DCE and VC observed in the in the groundwater samples collected from GW185S in the second and third quarters of 2016; concentrations of *cis*-1,2-DCE and VC in the CPOC area monitoring wells have been generally stable since compliance monitoring began. COPC area wells GW194S and GW245S are not shown on Figure 19 because COCs are generally not detected in the groundwater samples from these wells. Similarly, the remaining COCs are generally below the CUL in the CPOC area monitoring wells and are not included on Figure 19.

#### 3.6 AOC-003

This section describes corrective action activities conducted at AOC-003 for the third quarter of 2018. The cleanup remedy for this AOC is bioremediation and MA. Figure 20 shows the location of groundwater monitoring and bioremediation wells at AOC-003, as well as the groundwater elevations measured during this monitoring event.

#### 3.6.1 Cleanup action activities

No installation/construction activities were conducted for this cleanup action area during the third quarter.

#### 3.6.2 Compliance monitoring plan deviations

No deviations from the Compliance Monitoring Plan for this area occurred during the third quarter.

#### 3.6.3 Water levels

Table 13 presents the groundwater elevations measured during the third quarter 2018 monitoring event at AOC-003. Figure 20 shows the groundwater elevations from this event. Groundwater elevation contours are not shown due to the limited number of shallow groundwater monitoring wells. The third quarter 2018 groundwater elevation data indicate that the groundwater table is fairly flat and that groundwater generally flows north-northwest toward Lake Washington.

#### 3.6.4 Groundwater monitoring results

Groundwater at this area is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A. Results for primary geochemical indicators are presented in Table 14; results for the AOC-003 COCs are presented in Table 15.

#### 3.6.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 14. Results in Table 14 indicate that geochemical conditions are generally consistent throughout this AOC. The data indicate that conditions are generally conducive to biodegradation of the COCs for this AOC.

#### 3.6.4.2 COC results for source and downgradient plume areas

Table 15 lists third quarter 2018 analytical results for the AOC-003 COCs. Trend plots have not been prepared for the AOC-003 source area well, since groundwater analyses for source area well GW249S have been generally below reporting limits. During the third quarter sampling event, VC was detected above the CUL in the groundwater samples from the source area well, GW249S, and the downgradient well, GW188S. All other COCs were either not detected or were detected at concentrations below the CUL.

#### 3.6.4.3 COC results for conditional point of compliance area

Groundwater collected from the two CPOC monitoring wells did not have detections of PCE, TCE or *cis*-1,2-DCE above their respective CULs. VC was detected at concentrations above the CUL in the groundwater samples collected from both CPOC wells, as shown in Table 15.

#### 3.7 AOC-004

This section describes corrective action activities conducted at AOC-004. The cleanup remedy for this AOC is bioremediation and MA. Figure 21 shows the layout of the groundwater monitoring and bioremediation injection wells for this AOC.

#### 3.7.1 Cleanup action activities

No construction or operations work was conducted for this AOC during the third quarter.

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#### 3.7.2 Compliance monitoring plan deviations

No deviations from the Compliance Monitoring Plan occurred for this area during the third quarter.

#### 3.7.3 Water levels

Table 16 presents the groundwater elevations measured during the third quarter 2018 monitoring event at AOC-004. Figure 21 shows the groundwater elevations. Because there are only two groundwater elevation monitoring locations for AOC-004, groundwater contours are not shown on Figure 21.

#### 3.7.4 Groundwater monitoring results

Groundwater at this area is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A. Results for primary geochemical indicators are presented in Table 17; results for COCs are presented in Table 18.

#### 3.7.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 17. The primary geochemical indicators were generally uniform across the AOC. Geochemical indicators will continue to be monitored to assess attenuation of AOC 004 COCs.

#### 3.7.4.2 COC results for the source area

Table 18 lists third quarter 2018 analytical results for lead, the sole AOC-004 COC. Lead was detected at a concentration of 0.00107 mg/L, above the CUL of 0.001 mg/L but below the EPA SDWA MCL of 0.015 mg/L, in the groundwater sample from the source area well. Trend plots have not been created for the AOC-004 source area well, since COCs have not been detected consistently at concentrations above the CUL since monitoring began in 2015.

#### 3.7.4.3 COC results for the conditional point of compliance area

As shown in Table 18, lead was detected below the CUL at a concentration of 0.000762 mg/L in the groundwater from CPOC well GW174S.

#### 3.8 AOC-034 and AOC-035

AOC-034 and AOC-035 are monitored semiannually in May and November; therefore, no monitoring was conducted for this area during the third quarter of 2018.

#### 3.9 AOC-060

This section describes corrective action activities conducted at AOC-060 during the third quarter of 2018. The cleanup remedy for this AOC is bioremediation and MA. Figure 22 shows the locations of the groundwater monitoring and bioremediation injection wells at AOC-060, as well as the groundwater elevations measured during the third quarter sampling event.

#### 3.9.1 Cleanup action activities

Substrate injections were performed on July 26, 2018 at AOC-060.

#### 3.9.2 Compliance monitoring plan deviations

No deviations from the Compliance Monitoring Plan for this area occurred during this quarter.

#### 3.9.3 Water levels

Table 19 presents the groundwater elevations measured during the third quarter 2018 groundwater monitoring event at AOC-060. Figure 22 shows the groundwater elevations measured during this event. The groundwater flow direction was approximately towards the Cedar River but the hydraulic gradient could not be determined.

#### 3.9.4 Groundwater monitoring results

Groundwater at this area is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A. Results for primary geochemical indicators are presented in Table 20; results for COCs are presented in Table 21.

#### 3.9.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 20. The primary geochemical indicators show general uniform conditions in source and downgradient plume areas, except for the higher TOC concentrations detected in the groundwater from downgradient plume area wells GW012S and GW147S, reflecting the recent substrate injections. These data indicate that conditions are generally conducive to biodegradation of the COCs for this AOC.

#### 3.9.4.2 COC results for source and downgradient plume areas

Table 21 presents third quarter 2018 analytical results for the AOC-060 groundwater COCs. Figures 23 and 24 present trend plots for the COCs in selected source area and downgradient plume area wells. Trend charts are not shown for groundwater monitoring wells for which COCs are not commonly detected.

As shown in Table 21 and Figures 23 and 24, concentrations of all COCs exceeded the CUL in the groundwater collected from source area well GW009S as well as all of the downgradient plume area wells, except for VC, which was detected at a concentration below the CUL in the groundwater from downgradient plume well GW014S. The concentrations of COCs in the groundwater from source area well GW009S and downgradient plume wells GW012S and GW014S are generally stable (Figures 23 and 24), while the concentrations of COCs in the groundwater from downgradient plume wells GW012S and GW014S are generally stable (Figures 23 and 24), while the concentrations of COCs in the groundwater from downgradient plume well GW147S appear to vary seasonally (Figure 24).

#### 3.9.4.3 COC results for the conditional point of compliance area

As shown in Table 21, *cis*-1,2-DCE was detected at a concentration above the CUL in the groundwater collected from CPOC well GW254S, and at concentrations below the CUL in the groundwater from the remaining CPOC wells. TCE was detected in the groundwater from CPOC wells GW150S and GW253I at concentrations above the CUL; TCE concentrations in the remaining CPOC wells were below the CUL. VC was detected in the groundwater from all of the CPOC wells except GW252S, but the concentrations were below the CUL. Figures 25 and 26 present trends for the COCs in the CPOC wells. As shown in Figures 25 and 26, the COC concentrations in the groundwater from the CPOC wells are generally stable, with *cis*-1,2-DCE and TCE the most consistently detected at concentrations above the CUL. VC has not been detected in the groundwater from the CPOC at cocnetrations above the CUL since February 2016.

#### 3.10 AOC-090

This section describes corrective action activities conducted at AOC-090 during the third quarter of 2018. The cleanup remedy for this AOC is bioremediation and MA. Figure 27 shows the locations of the groundwater monitoring wells and the bioremediation injection system at AOC-090, as well as the groundwater elevations measured during the third quarter.

#### 3.10.1 Cleanup action activities

Substrate injections were perfoirmed on July 27, 2018 at AOC-090.

#### 3.10.2 Compliance monitoring plan deviations

No deviations from the Compliance Monitoring Plan occurred for this area during the third quarter.

#### 3.10.3 Water levels

Table 22 presents the groundwater elevations measured during the third quarter 2018 groundwater monitoring event at AOC-090. Figure 27 shows the groundwater elevations measured during this event. Based on these measurements, groundwater flow directions in the vicinity of AOC-090 could not be accurately determined. The cause of variations in water levels is not known.

#### 3.10.4 Groundwater monitoring results

Groundwater at this area is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A. Results for primary geochemical indicators are presented in Table 23; results for COCs are presented in Table 24.

#### 3.10.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 23. TOC concentrations in the groundwater from source area well GW189S were elevated during the thrid quarter, reflecting the recent substrate injection in this area (Figure 28). The pH was depressed in source area well GW189S but was neutral in all downgradient plume area wells. The other geochemical indicators show that conditions are generally uniform in AOC-090 groundwater and in general, primary geochemical indicators show that conditions support biological degradation of chlorinated VOCs.

#### 3.10.4.2 COC Results for source and downgradient plume areas

Table 24 presents third quarter 2018 analytical results for the AOC-090 groundwater COCs. As shown in Table 24, benzene, chloroform, *cis*-1,2-DCE, methylene chloride, TCE, VC, and TPH in the gasoline and diesel ranges were detected at concentrations above their respective CULs in the groundwater sample collected from GW189S. In addition, due to necessary dilutions performed to overcome sample matrix interference, reporting limits for 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, carbon tetrachloride, PCE, and TPH in the lube oil range were elevated above their respective CULs. VC was also detected in the groundwater collected from downgradient plume area well GW176S at a concentration of 0.230  $\mu$ g/L, above the CUL. There were no other COCs detected at concentrations above the CUL in the groundwater samples collected from downgradient plume area wells.

Figure 28 presents trends for selected COCs in source area well GW189S. As shown in Figure 28; concentrations of *cis*-1,2-DCE, TCE, and VC increased during the third quarter sampling event. Samples were collected a few weeks after the substrate injection. COC concentrations in the groundwater sample from this source area well have been declining over the past several years and concentrations during the third quarter are within the ranges observed historically.

#### 3.10.4.3 COC Results for conditional point of compliance area

VC was detected at concentrations above the CUL in the shallow zone CPOC wells except for well GW180S, but not in the intermediate zone CPOC wells. No other COCs in were detected above the CULs in groundwater from either the shallow or intermediate zone CPOC wells. This is the ninth consecutive sampling event that neither 1,1,2-trichloroethane, acetone, benzene, carbon tetrachloride, chloroform,

*cis*-1,2-DCE, methylene chloride, toluene, trans-1,2-dichloroethene, nor any of the TPH fractions were detected above CULs in any of the CPOC area wells.

#### 3.11 Building 4-70 area

This section describes corrective action activities conducted at this area during third quarter 2018. The cleanup remedy for the Building 4-70 Area is bioremediation and MA. Figure 29 shows the locations of the groundwater monitoring and bioremediation injection wells for this area.

#### 3.11.1 Cleanup action activities

No installation or construction activities took place at the Building 4-70 Area during the third quarter.

#### 3.11.2 Compliance monitoring plan deviations

No deviations from the Compliance Monitoring Plan for this area occurred during this quarter.

#### 3.11.3 Water levels

Table 25 presents the groundwater elevations measured during the third quarter 2018 monitoring event at Building 4-70. Figure 29 shows the groundwater elevations in the two monitoring wells for this area. These groundwater elevation data (only two wells) do not support development of elevation contours. However, the flow direction is expected to be similar to the flow observed at the Building 4 78/79 Area, which is generally to the west, toward the Cedar River Waterway.

#### 3.11.4 Groundwater monitoring results

Groundwater in this area is monitored following the schedules presented in Tables A-1 and A-2 in Appendix A. Results for primary geochemical indicators are presented in Table 26; results for the Building 70 Area COCs are presented in Table 27.

#### 3.11.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 26. The primary geochemical indicators show that reducing conditions were present and that conditions were conducive to biological degradation of the chlorinated VOCs. Geochemical indicators will continue to be monitored following the schedule presented in Table A-2 in Appendix A.

#### 3.11.4.2 COC Results for conditional point of compliance area

All of the groundwater monitoring wells for the Building 4-70 Area are located along the CPOC (Figure 29). Groundwater monitoring results for the CPOC area wells are shown in Table 27. TCE was detected in the groundwater from monitoring well GW259S at a concentration of 0.70  $\mu$ g/L, above the CUL of 0.54  $\mu$ g/L, and VC was detected in the groundwater from monitoring well GW260S at a concentration of 0.22  $\mu$ g/L, just above the CUL of 0.2  $\mu$ g/L. No other COCs were detected in the groundwater at concentrations above the CUL.

## 3.12 Lot 20/former building 10-71 parcel

The Lot 20/Former Building 10-71 Parcel is monitored semiannually in May and November; therefore, no monitoring was conducted for this area during the third quarter of 2018.



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#### 3.13 Apron A area

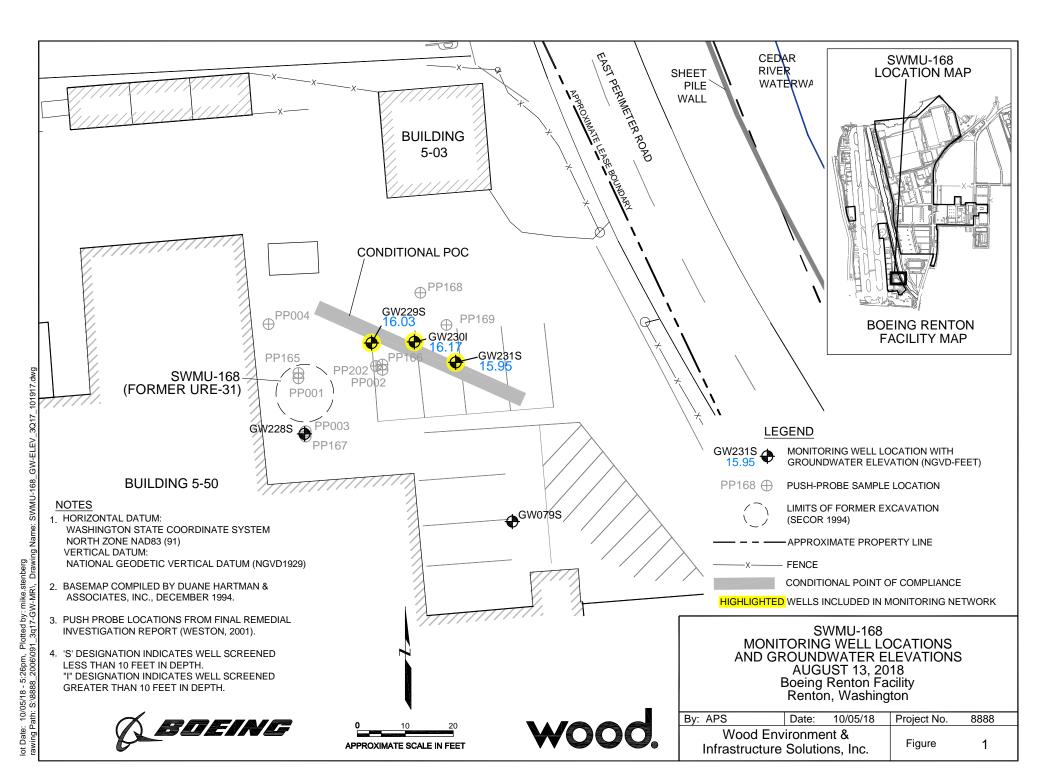
The Apron A Area is monitored semiannually in May and November; therefore, no monitoring was conducted for this area during the third quarter of 2018.

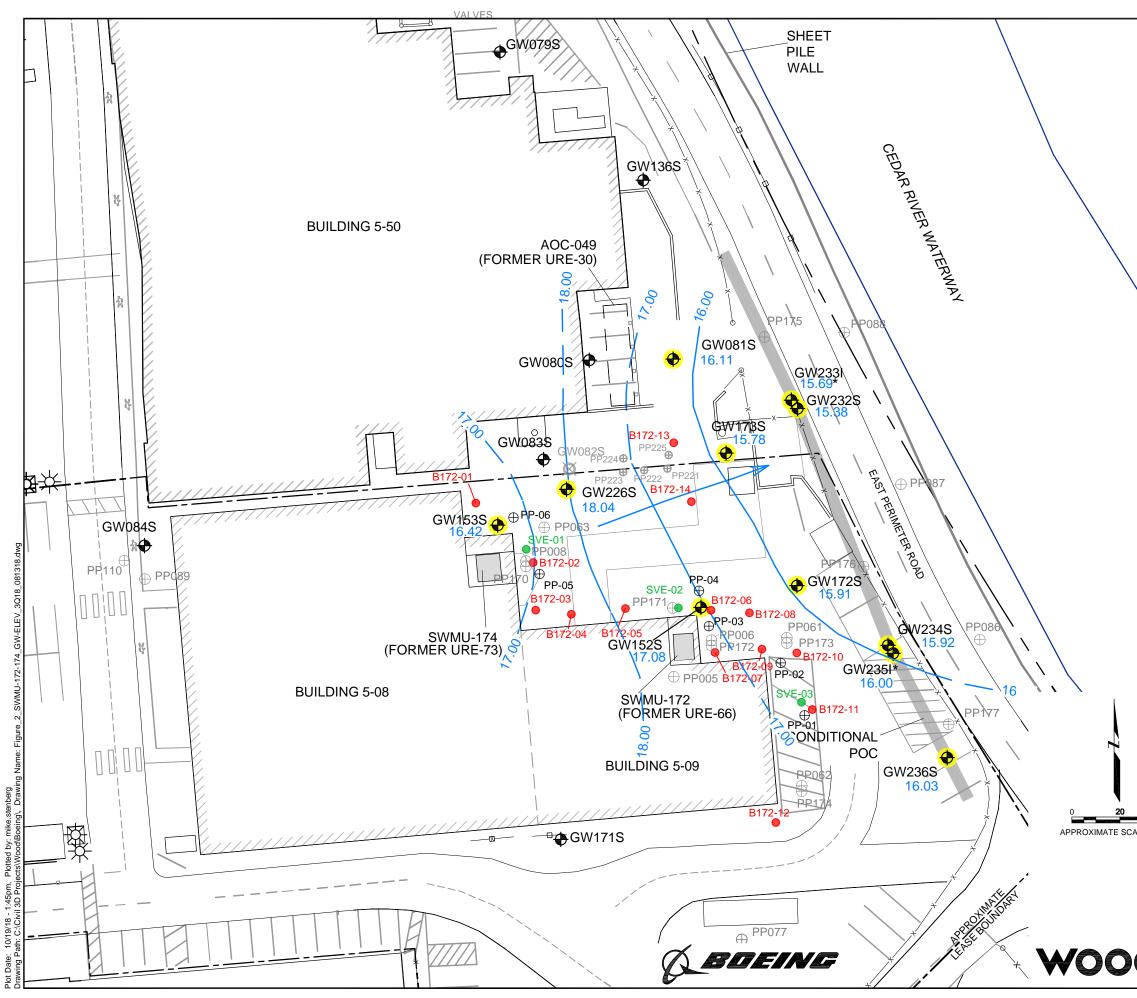
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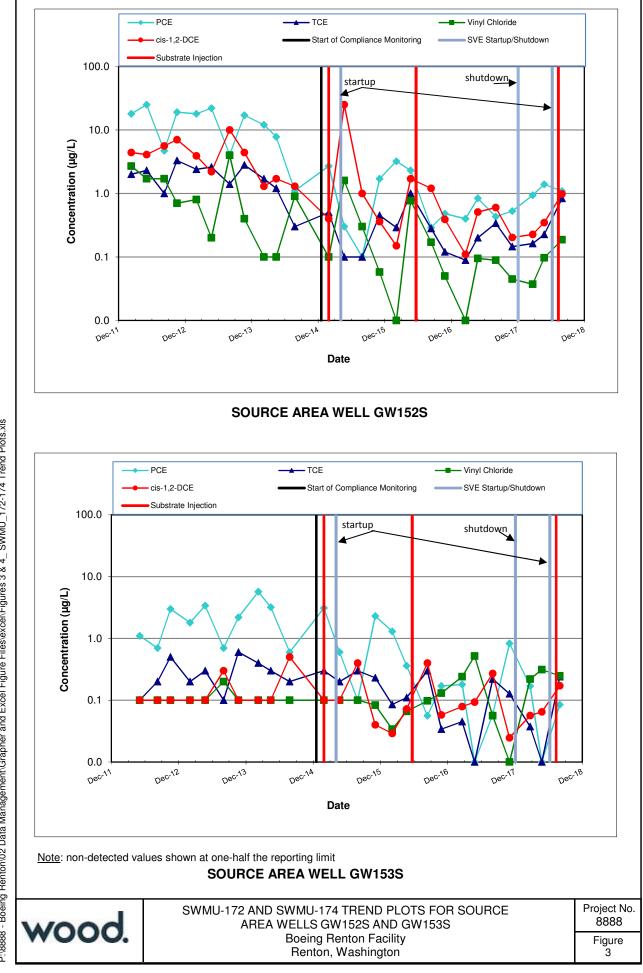


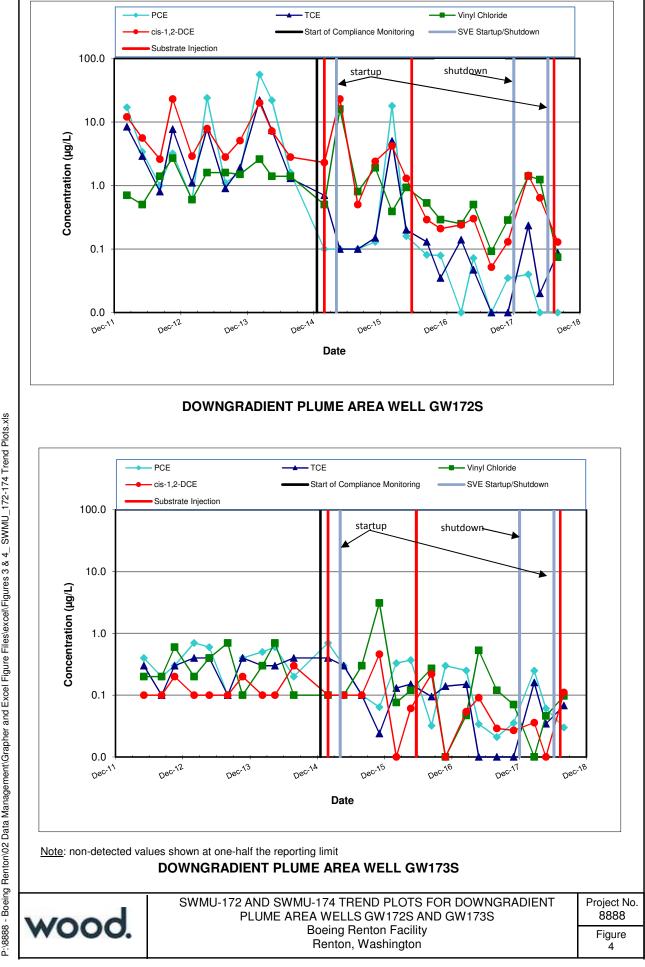
# Figures

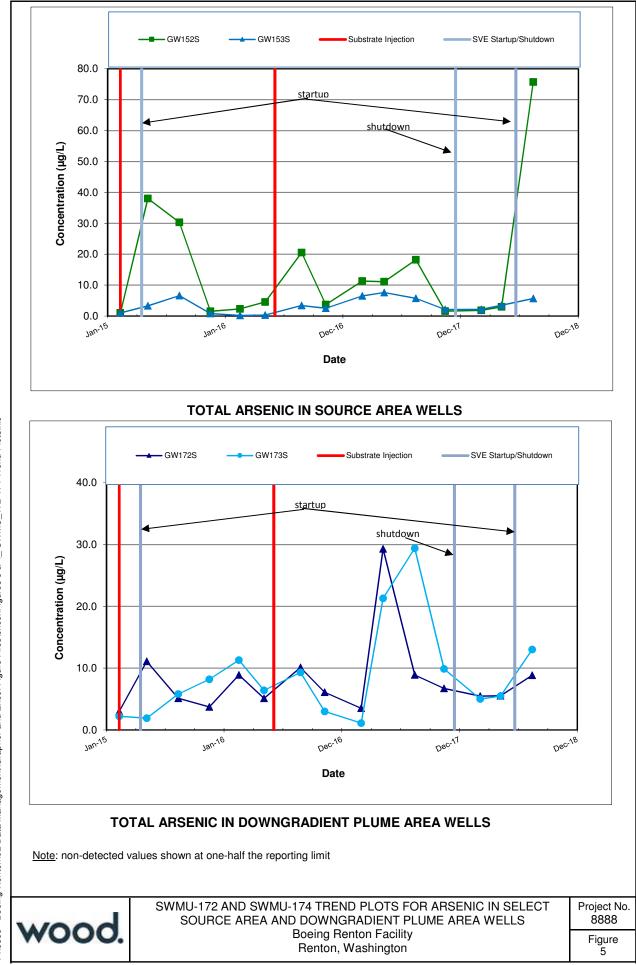


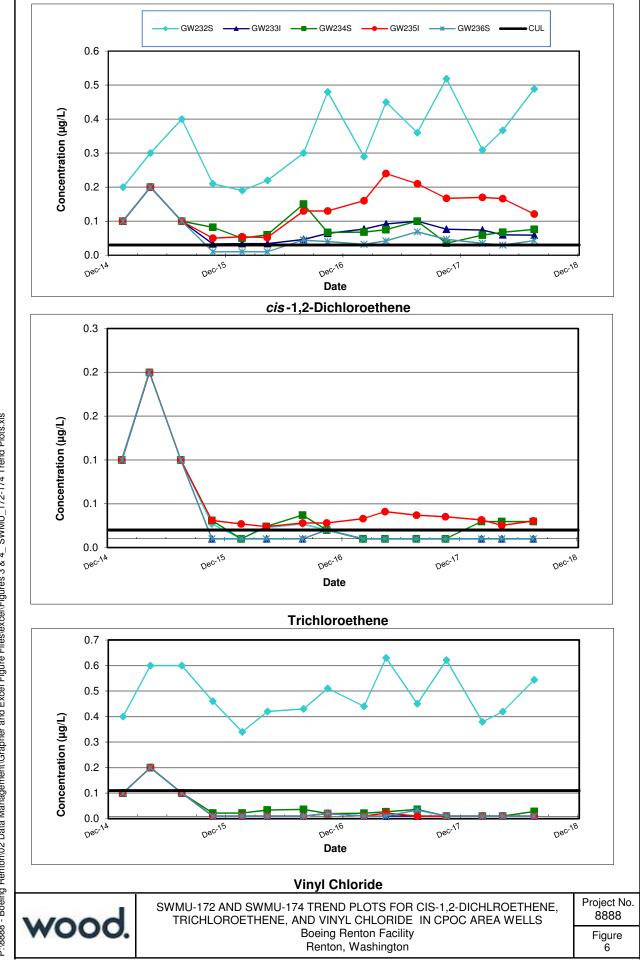


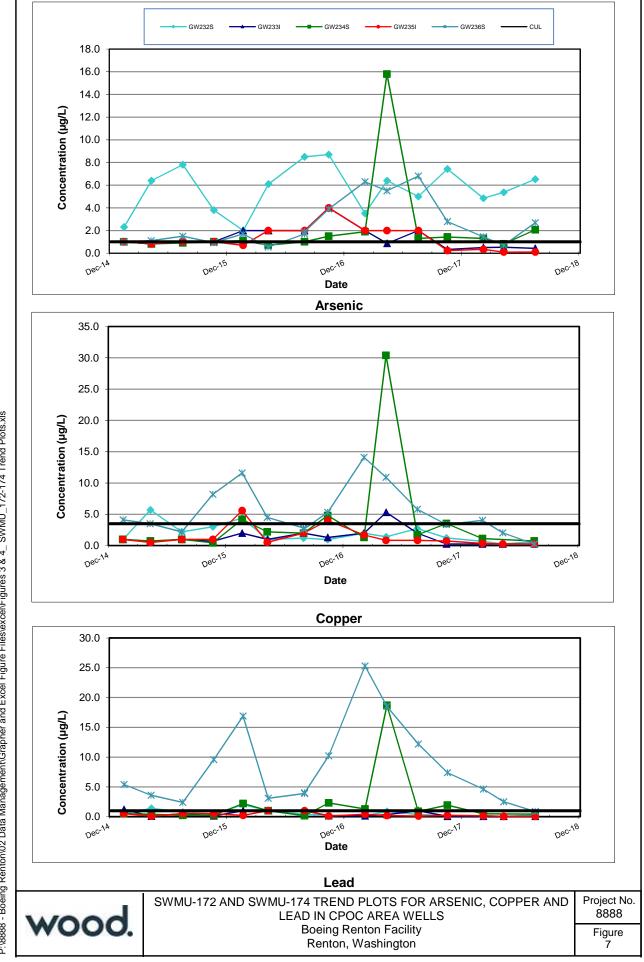
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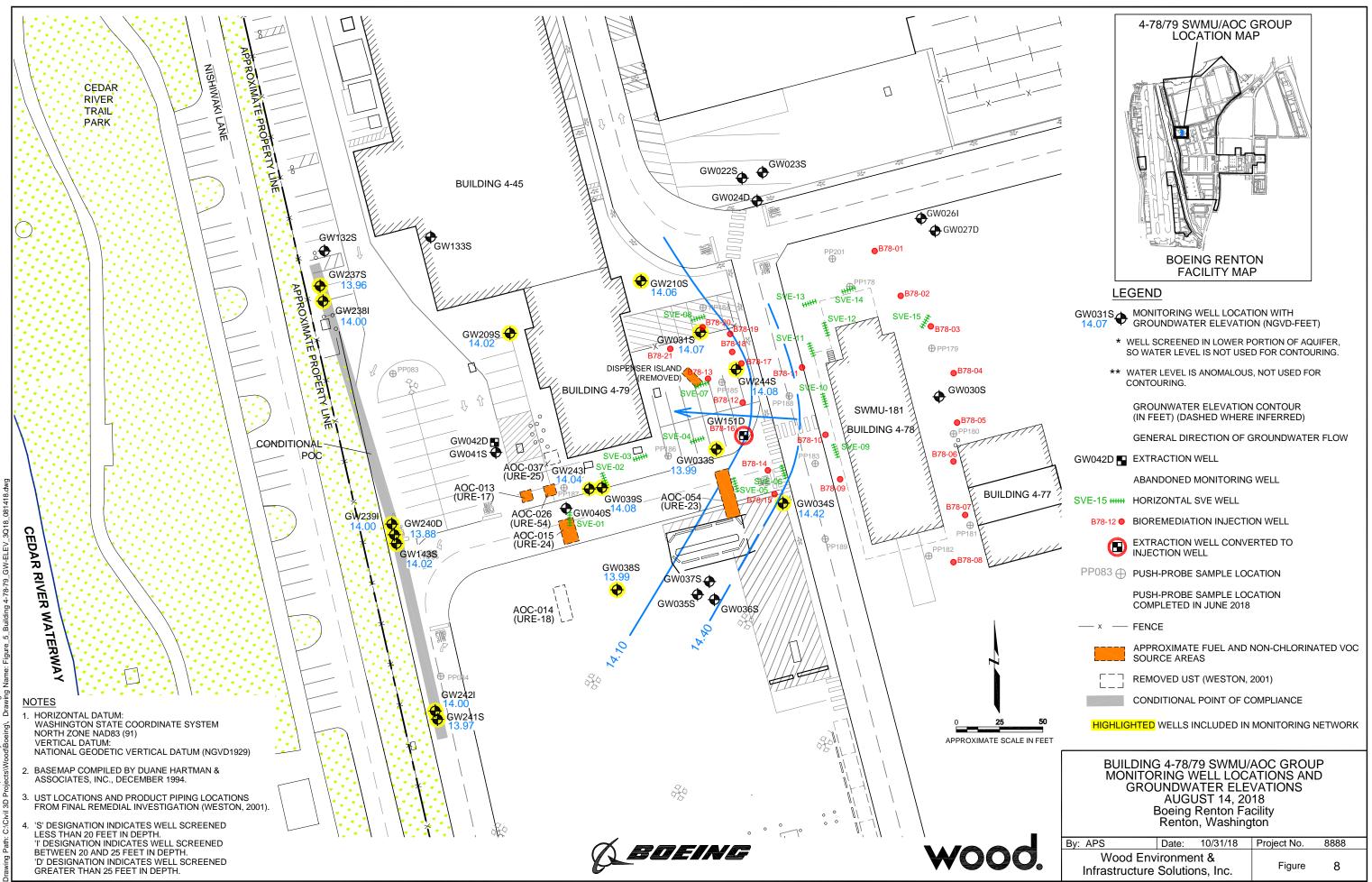




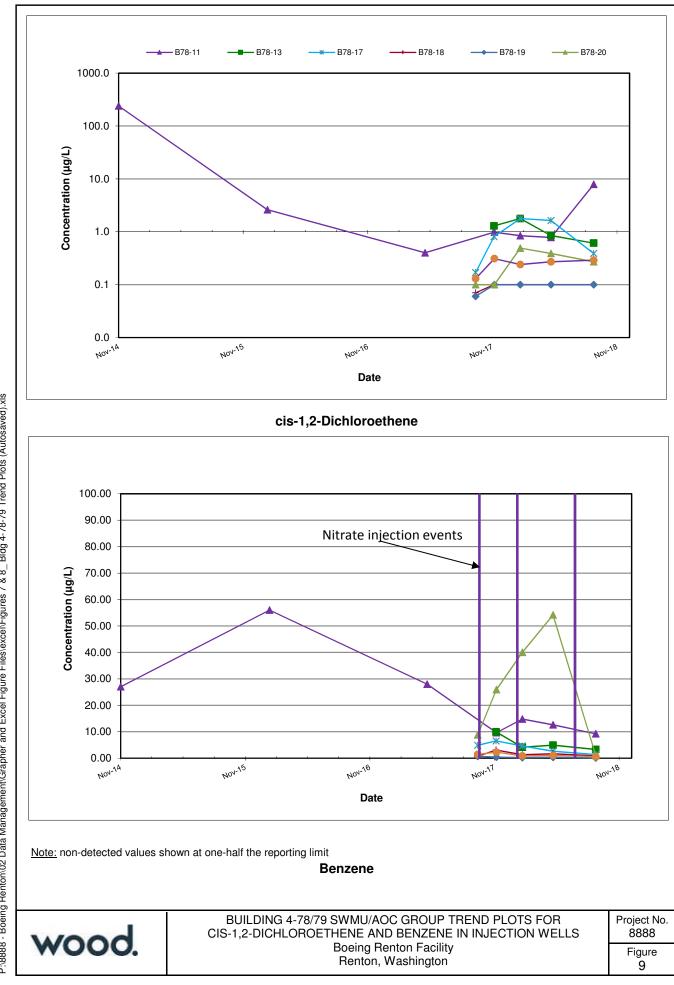




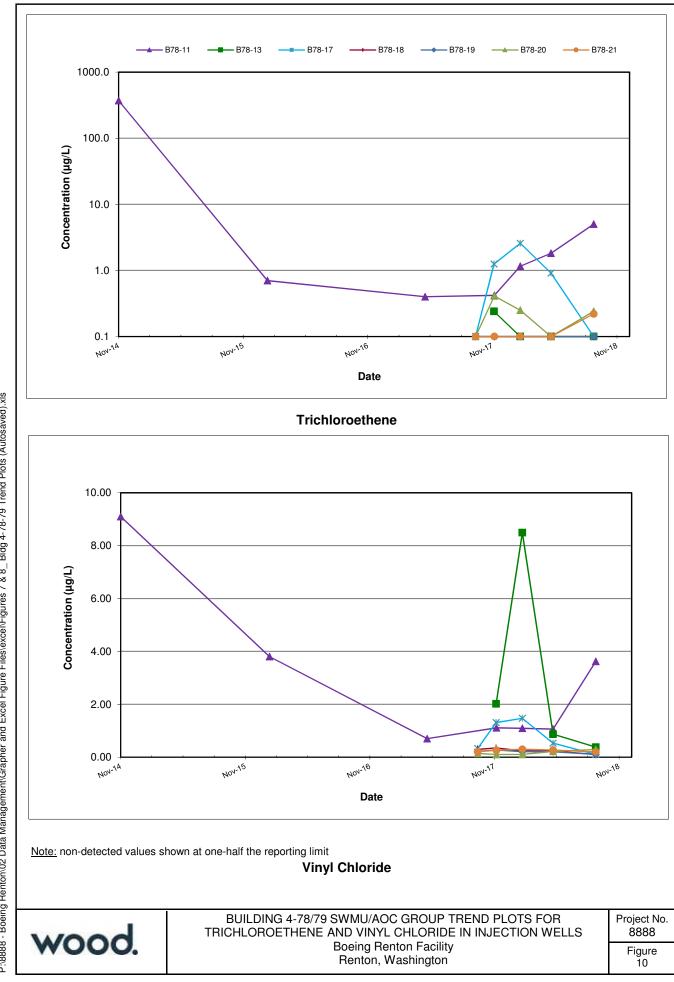




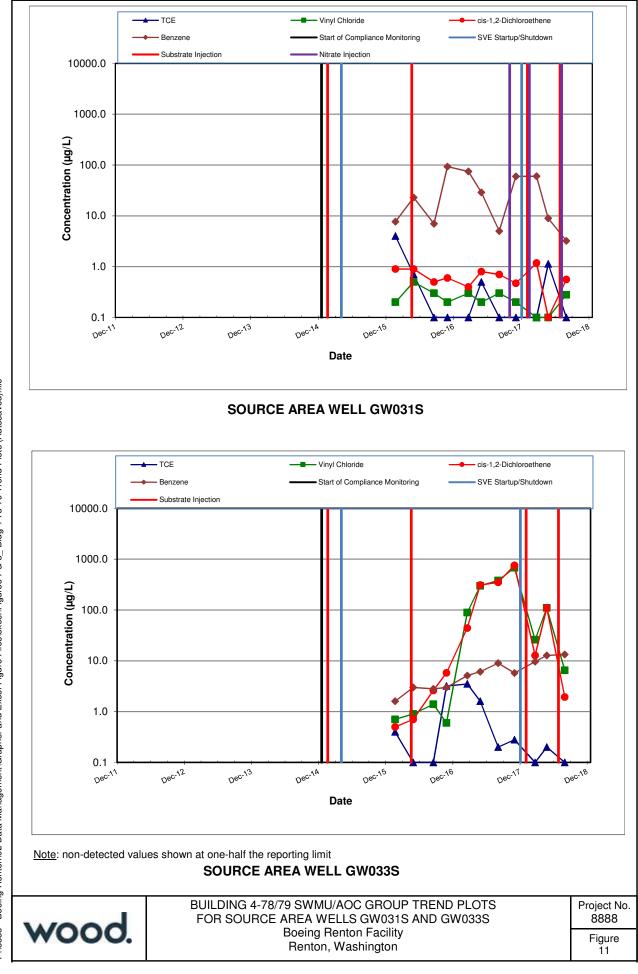
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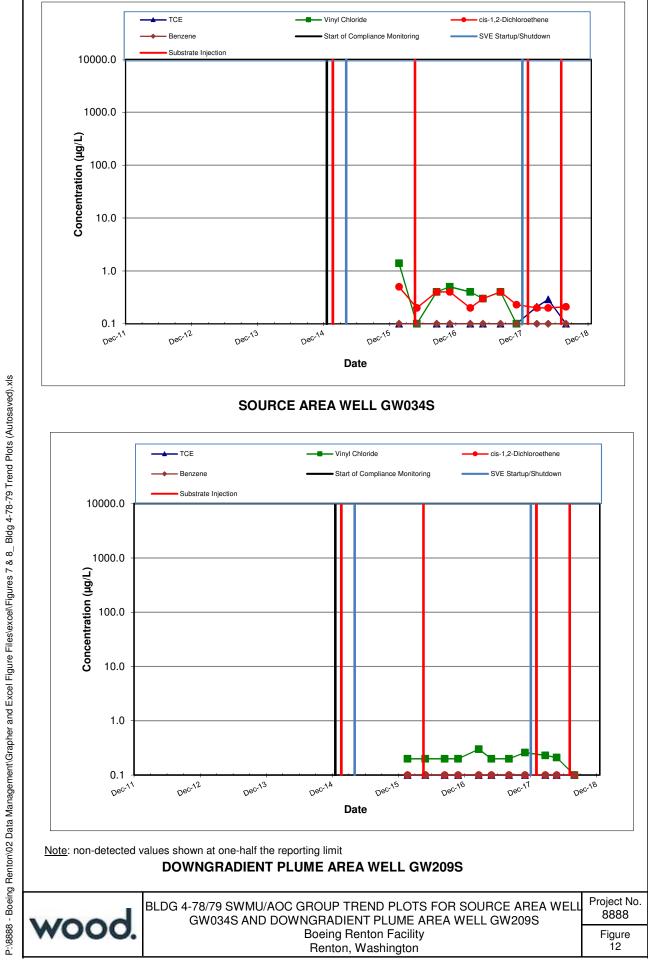
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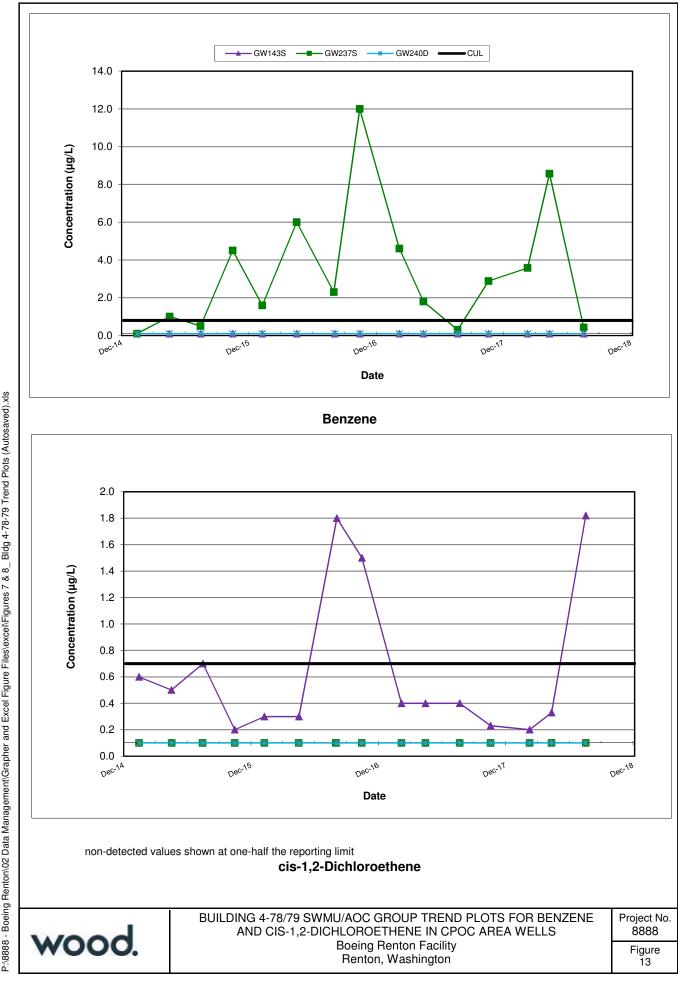


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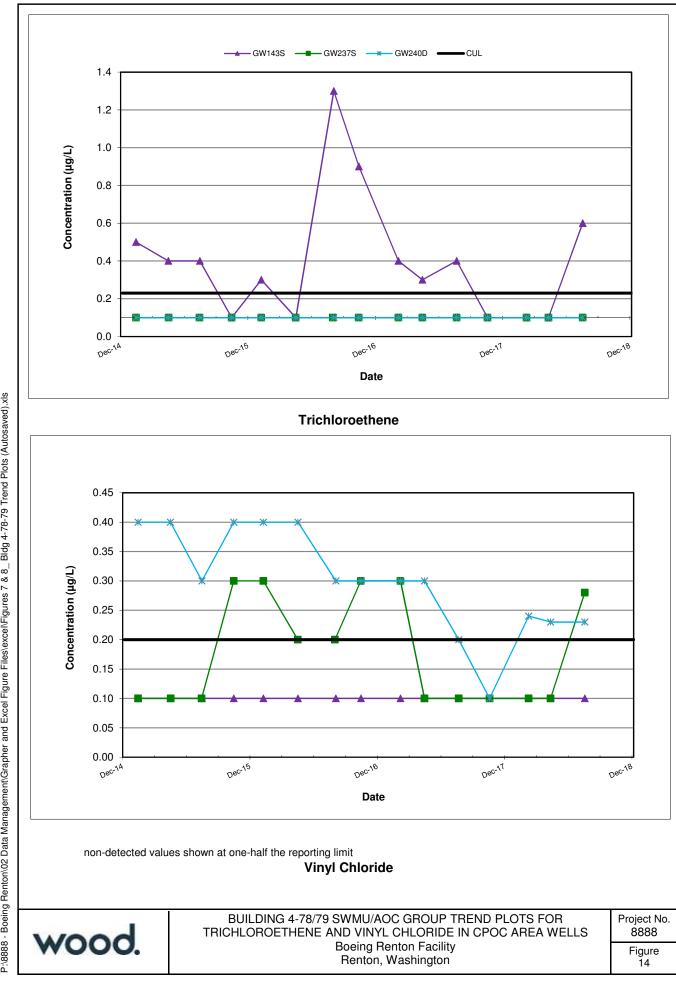


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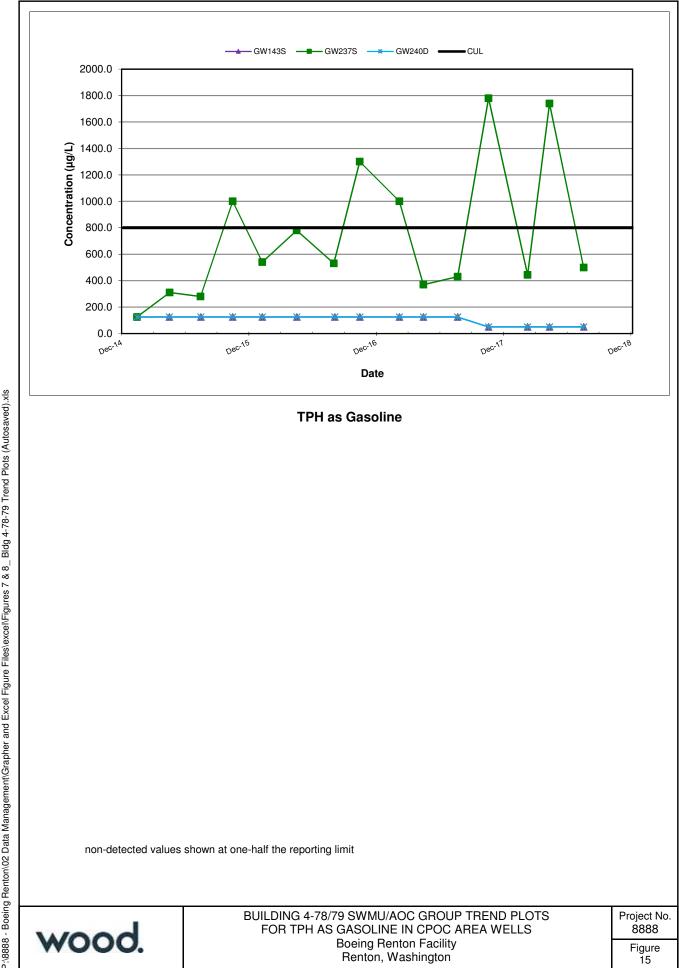




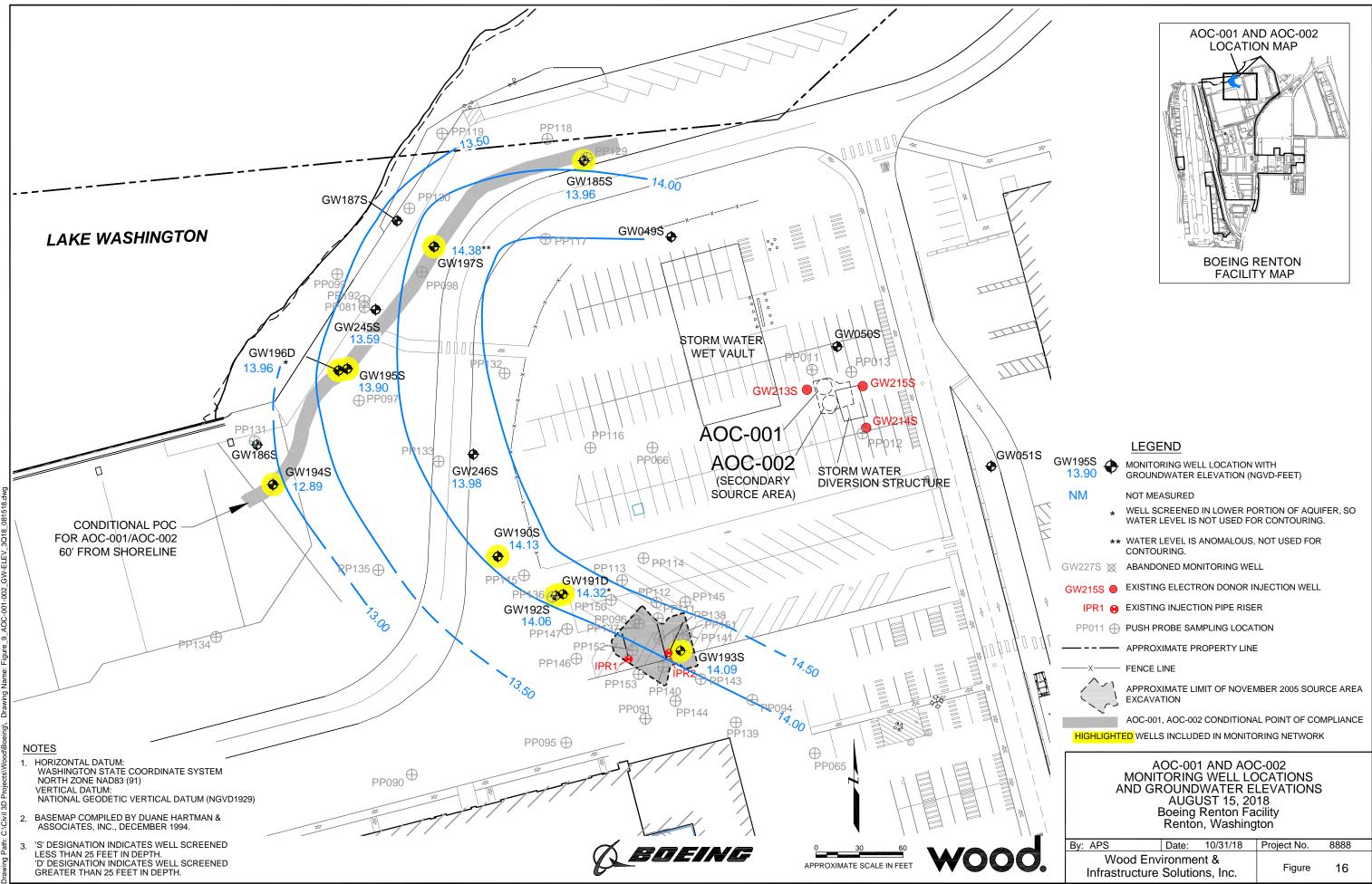
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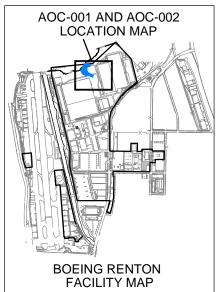


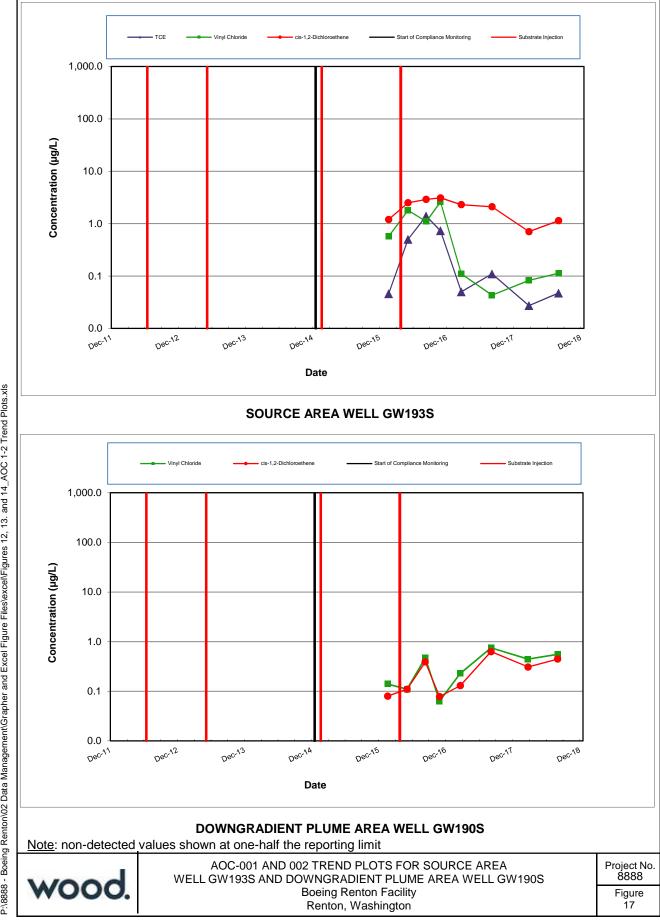
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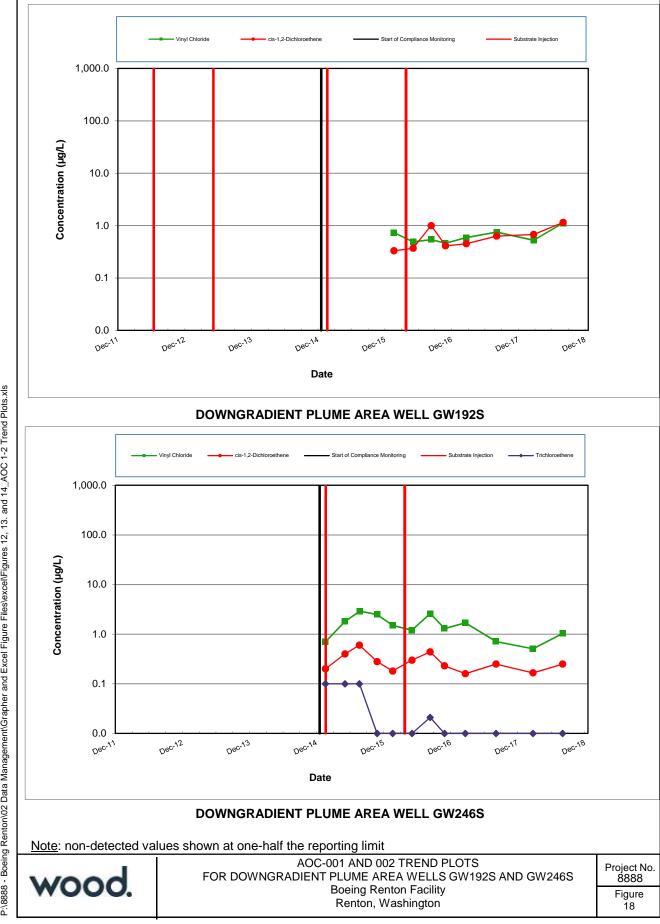
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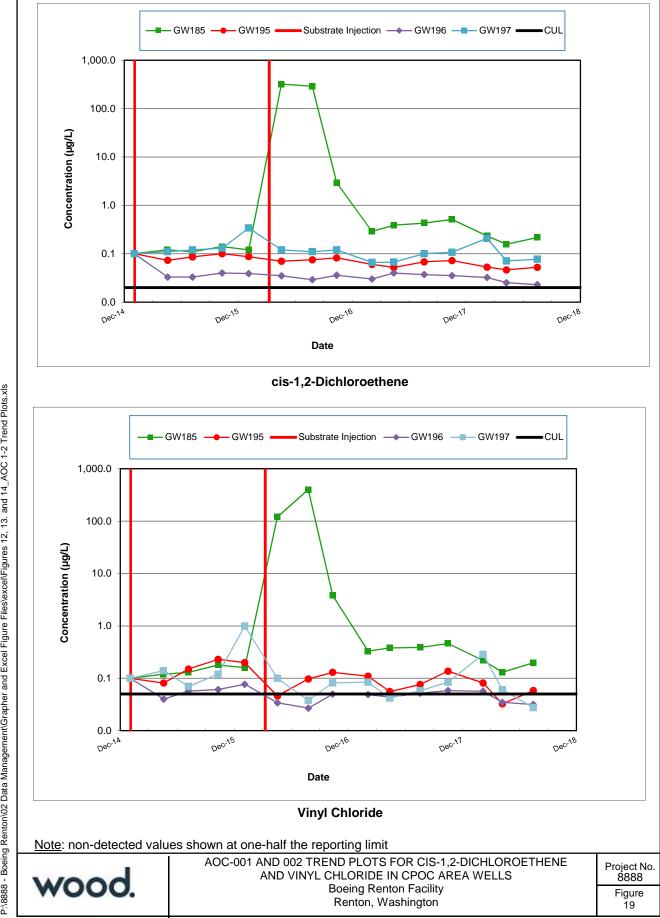




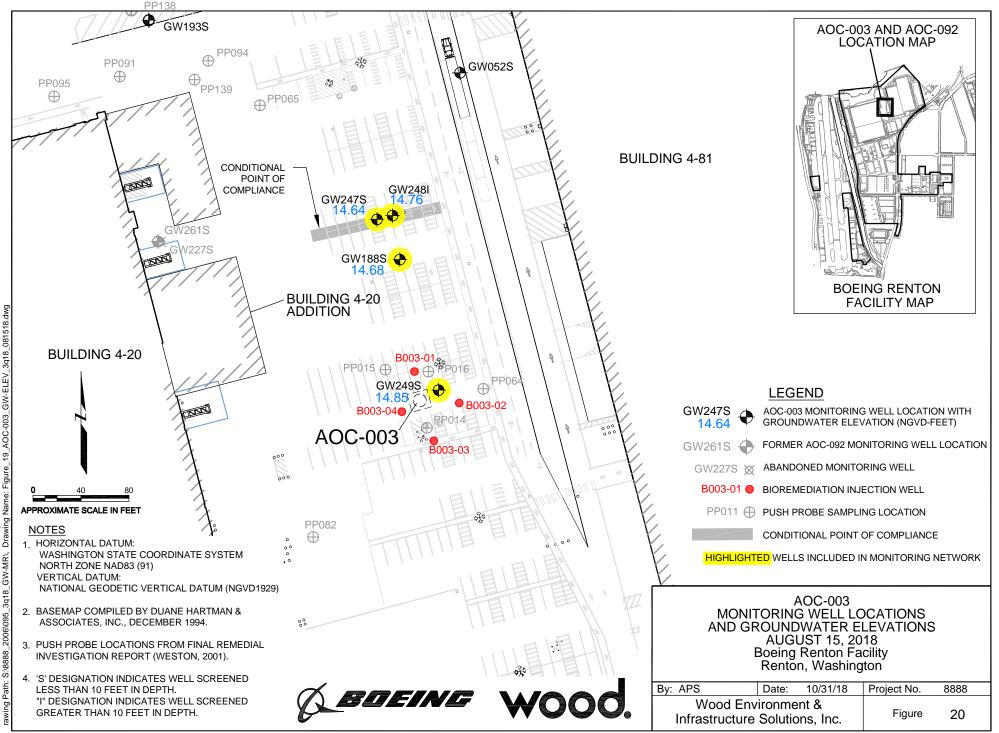
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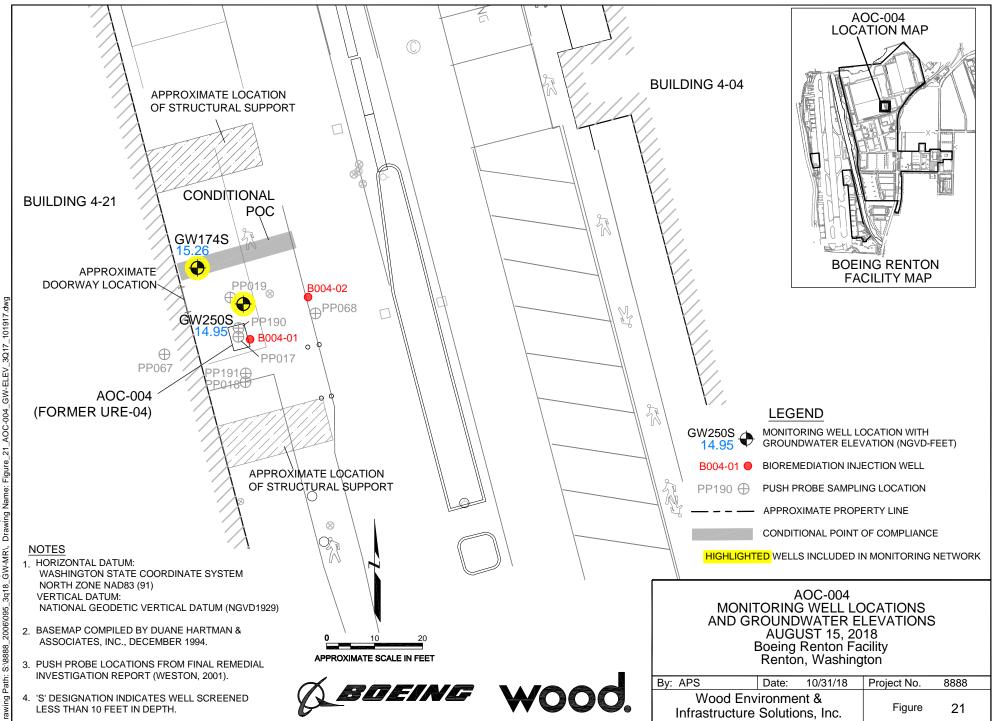


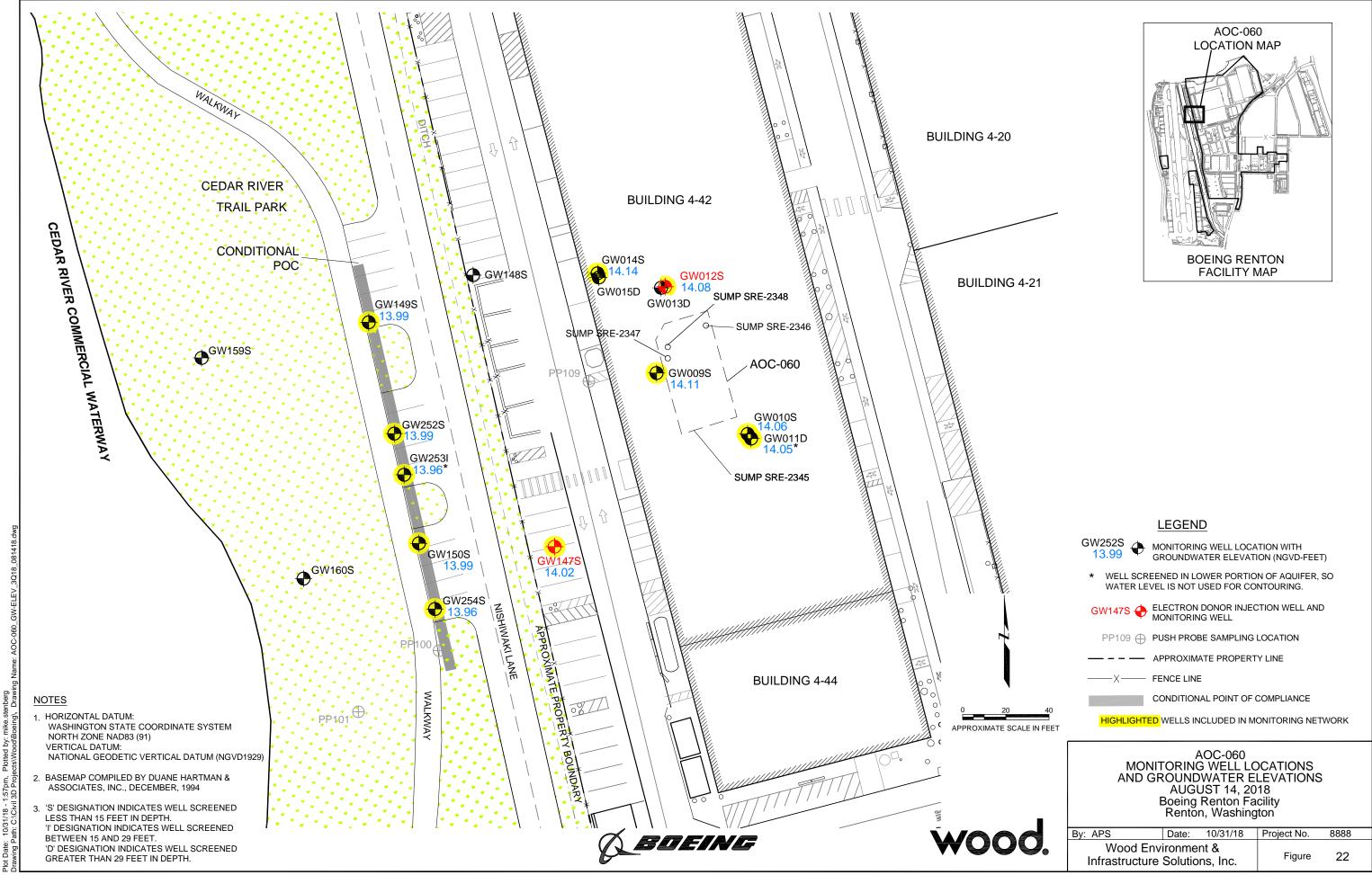
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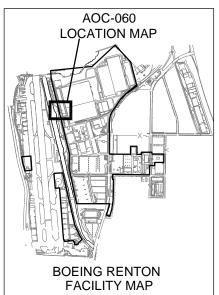


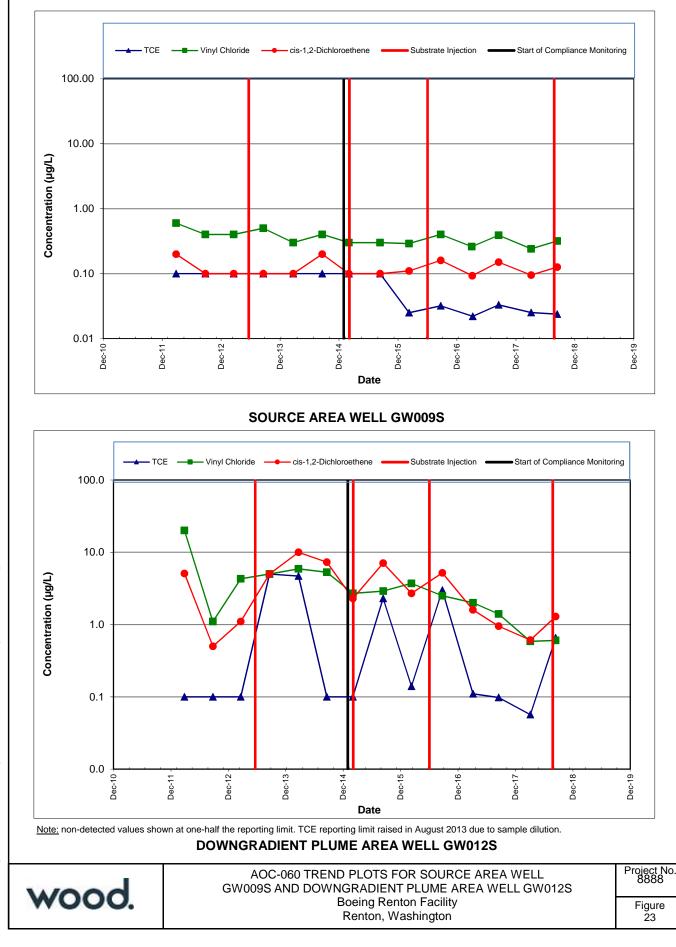




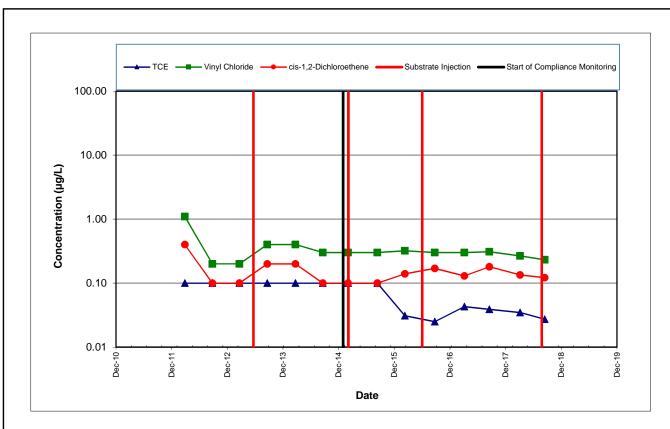
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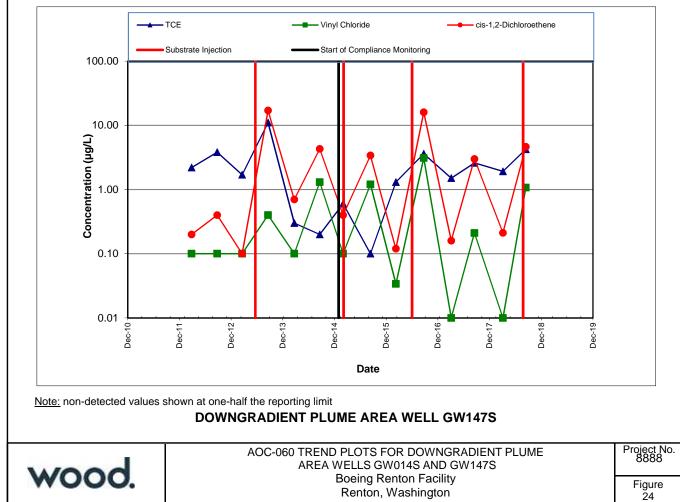




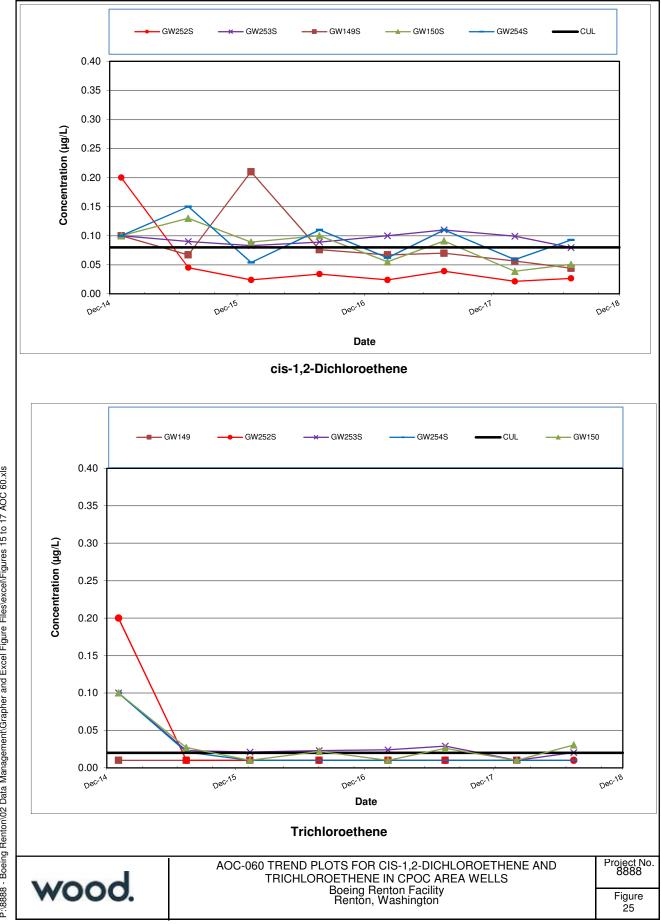
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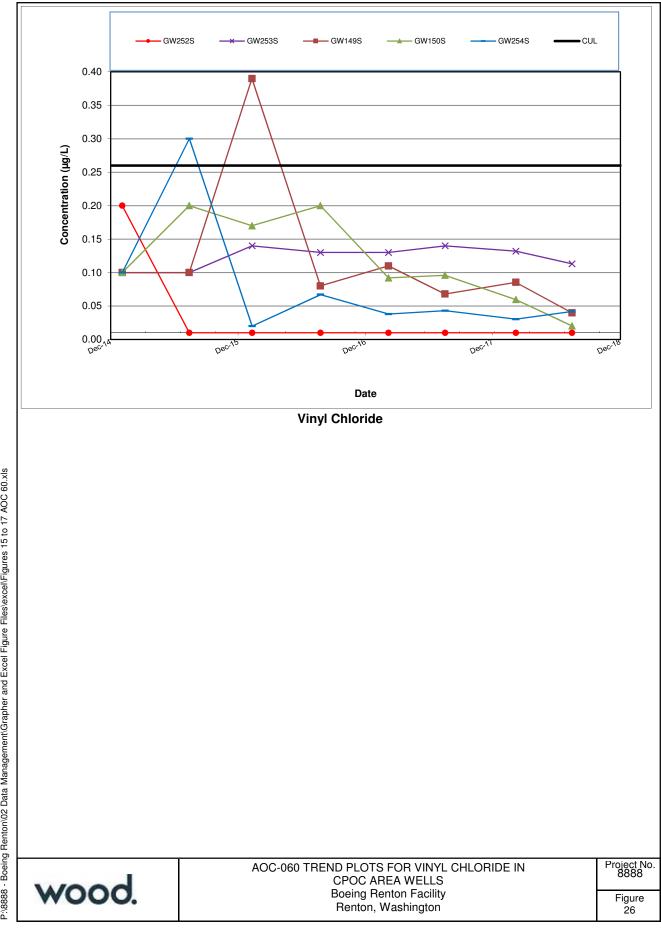
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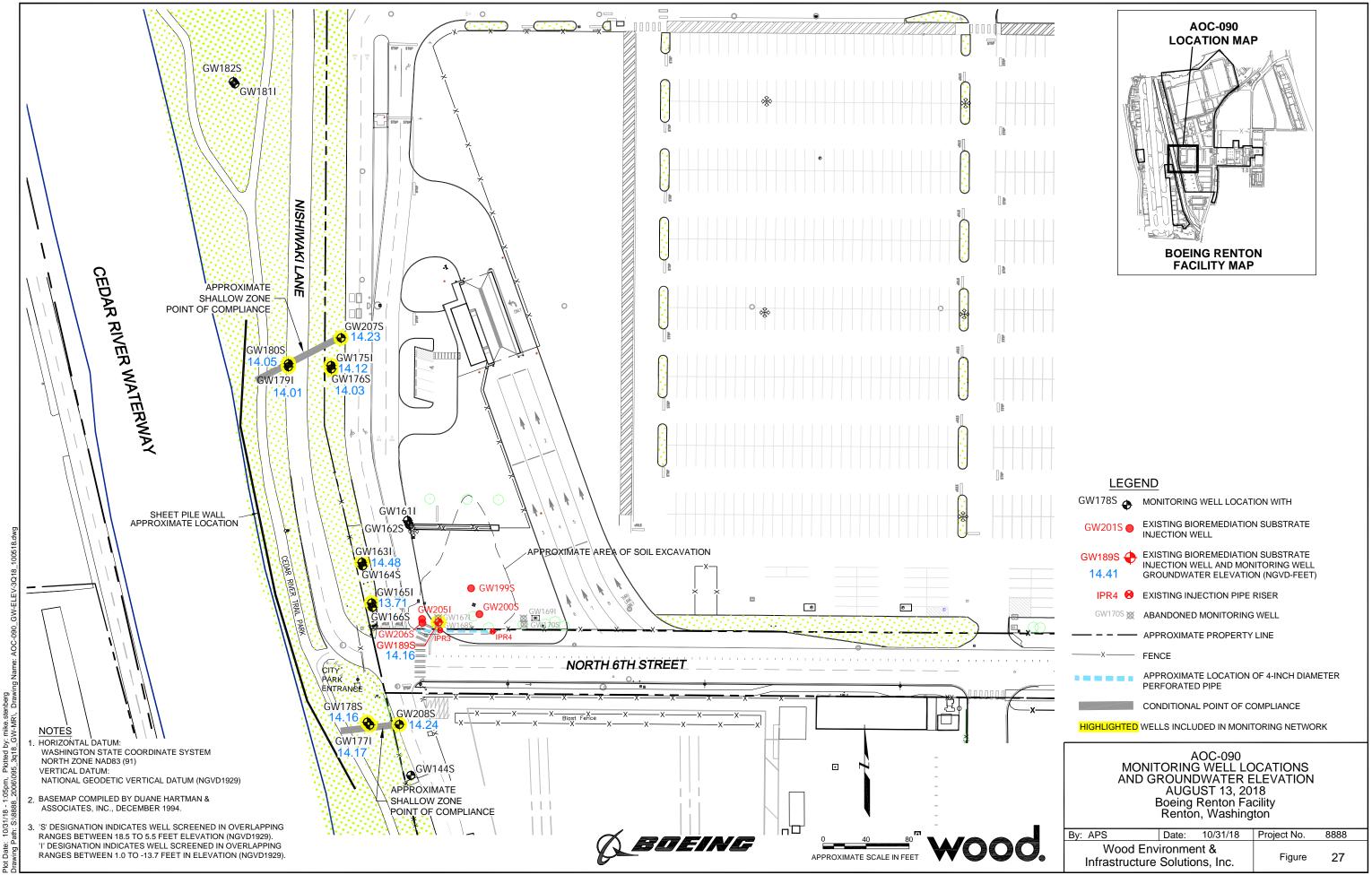
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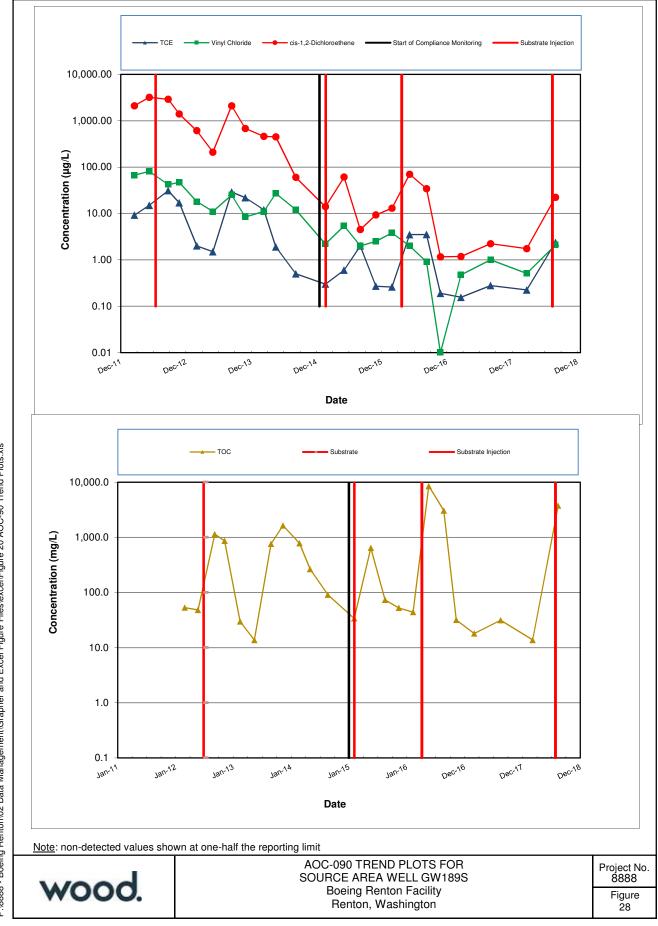
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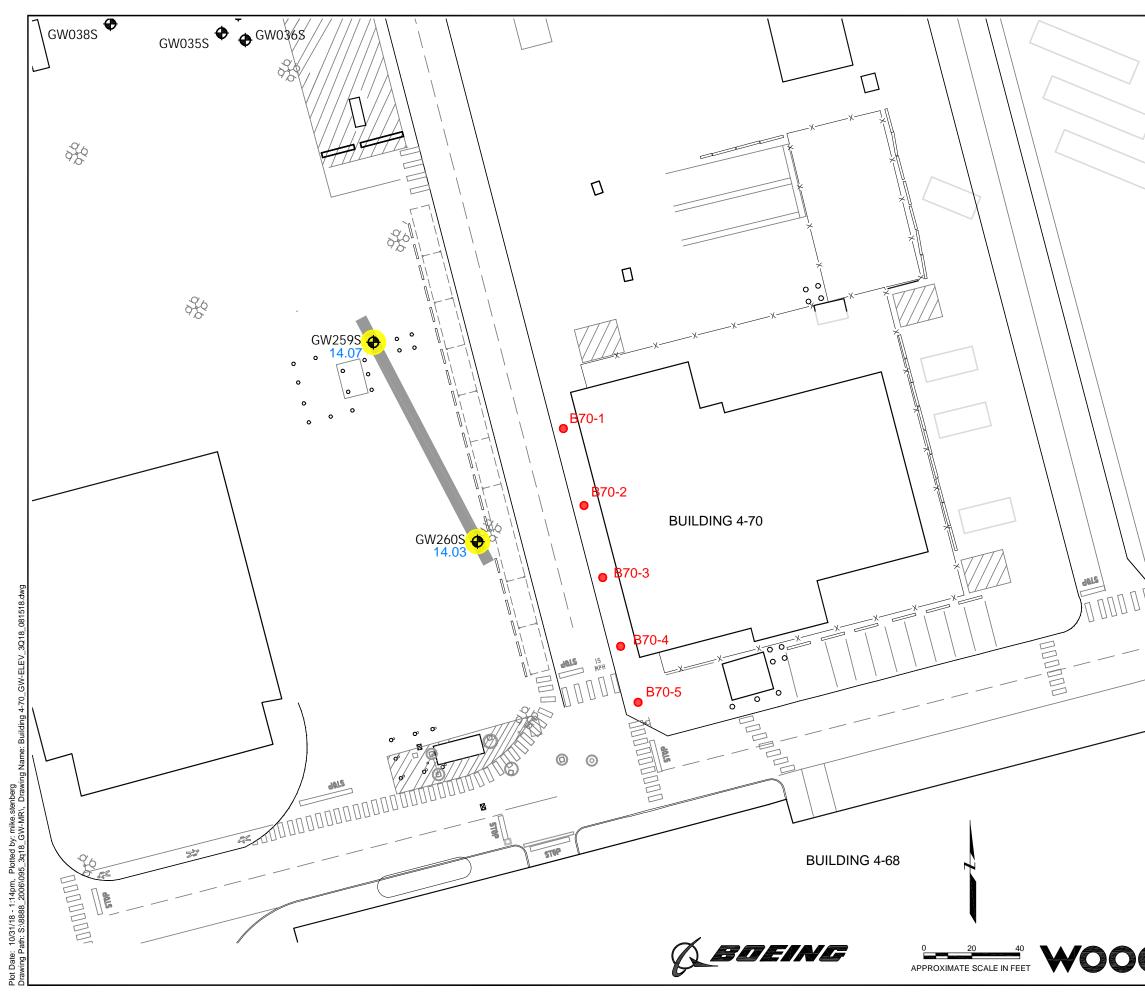
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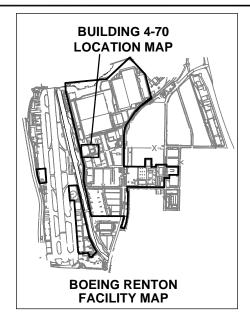


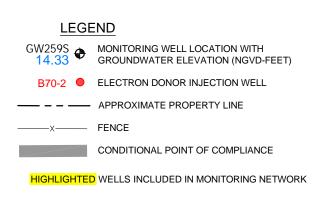
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#### NOTES

- 1. HORIZONTAL DATUM: WASHINGTON STATE COORDINATE SYSTEM NORTH ZONE NAD83 (91) VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM (NGVD1929)
- 2. BASEMAP COMPILED BY DUANE HARTMAN & ASSOCIATES, INC., DECEMBER 1994.
- 3. 'S' DESIGNATION INDICATES WELL SCREENED IN OVERLAPPING RANGES BETWEEN 18.5 TO 5.5 FEET ELEVATION (NGVD1929). 'I' DESIGNATION INDICATES WELL SCREENED IN OVERLAPPING RANGES BETWEEN 1.0 TO -13.7 FEET IN ELEVATION (NGVD1929).

#### BUILDING 4-70 MONITORING WELL LOCATIONS AND GROUNDWATER ELEVATIONS AUGUST 15, 2018 Boeing Renton Facility Renton, Washington

	By: APS	10/31/18	Project No.	8888	
0.	Wood Env Infrastructure			Figure	29



Tables

# **TABLE 1: SWMU-168 GROUNDWATER ELEVATION DATA** August 13, 2018

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW229S	5 to 10	25.42	9.39	16.03
GW230I	4 to 14	24.86	8.69	16.17
GW231S	5 to 10	24.65	8.70	15.95

<u>Notes</u>

1. S = shallow well; I = intermediate well.

2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

**Abbreviations** 

bgs = below ground surface SWMU = solid waste management unit TOC = top of casing

## TABLE 2: SWMU-168 CONCENTRATIONS OF PRIMARY GEOCHEMICAL INDICATORS <sup>1</sup> August 13, 2018

Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup>				
	CPOC Area					
	GW229S	GW230I	GW231S			
Temperature (degrees C)	22.45	20.28	19.63			
Specific Conductivity (µS/cm)	314	836	845			
Dissolved Oxygen (mg/L)	0.84	0.22	0.84			
pH (standard units)	6.08	6.03	6.19			
Oxidation/Reduction Potential (mV)	49.4	-42.8	-37.3			

<u>Notes</u>

1. Primary geochemical indicators are measured in the field.

2. S = shallow well; I = intermediate well.

**Abbreviations** 

μS/cm = microsiemens per centimeter CPOC = conditional point of compliance degrees C = degrees Celsius mg/L = milligrams per liter mV = millivolts SWMU = solid waste management unit

# TABLE 3: SWMU-168 CONCENTRATIONS OF CONSTITUENTS OF CONCERN 1<sup>1, 2</sup>AUGUST 13, 2018

Boeing Renton Facility, Renton, Washington

		Well ID <sup>3</sup> CPOC Area				
	Cleanup					
	Level <sup>4</sup>	GW229S	GW230I	GW231S		
Volatile Organic Compounds (µg/L)						
Vinyl Chloride	0.11	0.020 U	0.140 J	0.0326		

#### <u>Notes</u>

1. Data qualifiers are as follows:

U = The analyte was not detected at the reporting limit indicated.

J = This result is estimated.

2. **Bolded** values exceed the cleanup levels.

3. S = shallow well; I = intermediate well.

4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

#### Abbreviations

 $\mu$ g/L = micrograms per liter

CPOC = conditional point of compliance

SWMU = solid waste management unit

# TABLE 4: SWMU-172 AND SWMU-174 GROUP GROUNDWATER ELEVATION DATA

# August 13, 2018

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs) <sup>2</sup>	TOC Elevation (feet) <sup>3</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>3</sup>
GW081S	5 to 20 <sup>2</sup>	25.91	9.80	16.11
GW152S	5 to 20 <sup>2</sup>	26.98	9.90	17.08
GW153S	5 to 20 <sup>2</sup>	27.47	11.05	16.42
GW172S	8 to 18 <sup>2</sup>	26.44	10.53	15.91
GW173S	8 to 18 <sup>2</sup>	26.51	10.73	15.78
GW226S	5 to 20 <sup>2</sup>	26.86	8.82	18.04
GW232S	4 to 14	24.45	9.07	15.38
GW233I	15 to 25	24.35	8.66	15.69
GW234S	3 to 13	24.95	9.03	15.92
GW235I	15 to 25	24.90	8.90	16.00
GW236S	5 to 15	24.36	8.33	16.03

#### <u>Notes</u>

1. S = shallow well; I = intermediate well.

2. Screen intervals are approximate and based on database listings of the screen interval depths for these wells.

3. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

**Abbreviations** 

bgs = below ground surface SWMU = solid waste management unit TOC = top of casing

## TABLE 5: SWMU-172 AND SWMU-174 GROUP CONCENTRATIONS OF PRIMARY GEOCHEMICAL INDICATORS <sup>1</sup> August 13, 2018

Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup>										
		Source Area			Downgradient Plume Area			CPOC Area				
		GW152S										
	GW152S	(field dup.)	GW153S	GW081S	GW172S	GW173S	GW226S	GW232S	GW233I	GW234S	GW235I	GW236S
Temperature (degrees C)	19.60	19.60	19.60	19.20	18.60	19.40	21.30	19.10	18.30	17.80	17.90	16.80
Specific Conductivity (µS/cm)	3,149	3,149	2,079	133.1	326.4	846	323.7	515	235	247.8	153	406.6
Dissolved Oxygen (mg/L)	0.36	0.36	0.44	0.58	0.40	0.34	1.32	1.30	0.3	0.49	2.18	1.08
pH (standard units)	4.45	4.45	4.77	6.41	6.34	6.25	6.27	6.10	6.20	6.06	6.34	6.28
Oxidation/Reduction Potential (mV)	31.6	31.6	-1.3	52.9	52.1	42.7	-23.7	-23.2	-26.9	14.3	-12.1	77.0
Total Organic Carbon (mg/L)	10,860	10,870	1,281	7.12	1,697	351.7	6.36	8.44	3.95	1.70	0.76	1.43

#### <u>Notes</u>

1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured in the laboratory.

2. S = shallow well; I = intermediate well.

#### Abbreviations

µS/cm = microsiemens per centimeter CPOC = conditional point of compliance degrees C = degrees Celsius field dup. = field duplicate mg/L = milligrams per liter mV = millivolts SWMU = solid waste management unit

# TABLE 6: SWMU-172 AND SWMU-174 GROUP CONCENTRATIONS OF CONSTITUENTS OF CONCERN <sup>1,2</sup>

# AUGUST 13, 2018

Boeing Renton Facility, Renton, Washington

			Well ID <sup>3</sup>										
			Source Area			Downgradier	nt Plume Area	a			CPOC Area		
	Cleanup		GW152S (field										
	Level <sup>4</sup>	GW152S	dup.)	GW153S	GW081S	GW172S	GW173S	GW226S	GW232S	GW233I	GW234S	GW235I	GW236S
Volatile Organic Compounds (µ	ig/L)												
cis -1,2-Dichloroethene	0.03	0.981	0.991	0.171	0.0243	0.129	0.111	0.0262	0.489	0.0587	0.0758	0.121	0.0427
Tetrachloroethene	0.02	1.090	1.060	0.0845	0.020 U	0.020 U	0.0301	0.0733	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Trichloroethene	0.02	0.833	0.827	0.241	0.020 U	0.0872	0.0681	0.020 U	0.020 U	0.020 U	0.020 U	0.0305	0.020 U
Vinyl Chloride	0.11	0.187 J	0.178	0.248 J	0.020 U	0.0742	0.0969 J	0.0409 J	0.544 J	0.020 U	0.0282 J	0.020 U	0.020 U
Total Metals (µg/L)													
Arsenic	1.0	75.7	66.5	5.67	2.30	8.84	13.0	2.78	6.52	0.421	2.07	0.200 U	2.69
Copper	3.5	24.1	21.2	2.55	0.811	2.50 U	6.95	1.19	0.628	0.500 U	0.748	0.500 U	0.500 U
Lead	1.0	12.7	11.0	3.06	0.100 U	1.02	2.88	0.141	0.275	0.100 U	0.425	0.100 U	0.874

### <u>Notes</u>

1. Data qualifiers are as follows:

U = The analyte was not detected at the reporting limit indicated.

J = This result is estimated.

2. **Bolded** values exceed the cleanup levels.

3. S = shallow well; I = intermediate well.

4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

### Abbreviations

μg/L = micrograms per liter CPOC = conditional point of compliance field dup. = field duplicate SWMU = solid waste management unit

## TABLE 7: BUILDING 4-78/79 SWMU/AOC GROUP GROUNDWATER ELEVATION DATA August 13 and 14, 2018

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW031S	5 to 25	19.44	5.37	14.07
GW033S	5 to 25	19.49	5.50	13.99
GW034S <sup>3</sup>	5 to 25	19.65	5.58	14.42
GW038S	5 to 25	19.68	5.69	13.99
GW039S	3.5 to 13.5	19.30	5.22	14.08
GW143S	10 to 15	19.81	5.79	14.02
GW209S	3.5 to 13.3	19.37	5.35	14.02
GW210S	3.5 to 13.3	19.19	5.13	14.06
GW237S	5 to 15	18.85	4.89	13.96
GW238I	5 to 20	18.94	4.94	14.00
GW239I	15 to 20	19.69	5.69	14.00
GW240D	22 to 27	19.81	5.93	13.88
GW241S	4 to 14	20.28	6.31	13.97
GW242I	15 to 20	20.44	6.44	14.00
GW243I	5 to 20	19.49	5.45	14.04
GW244S	5 to 15	19.53	5.45	14.08

<u>Notes</u>

- 1. S = shallow well; I = intermediate well; D = deep well.
- 2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.
- 3. GW034S was measured on March 24, 2017, becaue it was inaccessible during the March 2 and 3 sampling event.

Abbreviations AOC = area of concern bgs = below ground surface TOC = top of casing

#### TALBE 8: BUILDING 4-78/79 SWMU/AOC GROUP CONCENTRATIONS OF PRIMARY GEOCHEMICAL INDICATORS <sup>1</sup>

#### August 13 and 14, 2018

Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup> Source Area									
		GW031S									
	GW031S	(field dup.)	GW033S	GW034S	GW039S	GW243I	GW244S				
Temperature (degrees C)	23.70	23.7	23.60	25.60	24.40	28.40	25.60				
Specific Conductivity (µS/cm)	367.3	367.3	412.8	337.4	194.2	482.7	530				
Dissolved Oxygen (mg/L)	0.21	0.21	0.32	0.21	0.15	0.31	0.32				
pH (standard units)	6.17	6.17	6.14	6.30	6.20	6.28	6.21				
Oxidation/Reduction Potential (mV)	70.9	70.9	41.1	37.7	16.4	29.2	44.9				
Total Organic Carbon (mg/L)	13.41	14.11	43.57	8.60	13.49	9.65	12.70				

		Well ID <sup>2</sup>	
	Down	gradient Plum	e Area
	GW038S	GW209S	GW210S
Temperature (degrees C)	24.50	25.00	25.30
Specific Conductivity (µS/cm)	341.7	401.6	362.9
Dissolved Oxygen (mg/L)	0.08	0.20	0.19
pH (standard units)	6.35	6.31	6.39
Oxidation/Reduction Potential (mV)	5.5	11.4	64.5
Total Organic Carbon (mg/L)	10.02	9.96	11.63

		Well ID <sup>2</sup>									
		CPOC Area									
	GW143S	GW237S	GW238I	GW239I	GW240D	GW241S	GW242I				
Temperature (degrees C)	24.2	23.20	25.3	26.20	27.20	21.62	24.04				
Specific Conductivity (µS/cm)	326.7	343.9	478.5	364.4	484.4	349	370				
Dissolved Oxygen (mg/L)	0.27	0.26	0.13	0.22	0.14	0.12	0.30				
pH (standard units)	6.32	6.40	6.45	6.31	6.44	6.34	6.54				
Oxidation/Reduction Potential (mV)	-1.7	22.0	-7.4	18.9	-8.9	-77.6	-72.1				
Total Organic Carbon (mg/L)	7.62	7.16	8.68	9.42	5.77	NA	NA				

#### <u>Notes</u>

1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured

in the laboratory.

2. S = shallow well; I = intermediate well; D = deep well.

#### **Abbreviations**

 $\mu$ S/cm = microsiemens per centimeter AOC = area of concern CPOC = conditional point of compliance degrees C = degrees Celsius field dup. = field duplicate mg/L = milligrams per liter mV = millivolts

# TABLE 9: BUILDING 4-78/79 SWMU/AOC GROUP CONCENTRATIONS OF CONSTITUENTS OF CONCERN 1,2AUGUST 13 and 14, 2018

					Well ID <sup>3</sup>			
					Source Area			
	Cleanup		GW031S					
	Level <sup>4</sup>	GW031S	(field dup.)	GW033S	GW034S	GW039S	GW243I	GW244S
Volatile Organic Compounds (µg/L)								
Benzene	0.80	3.21	3.11	13.30	0.20 U	0.20 U	0.34	4.64
cis -1,2-Dichloroethene	0.70	0.56 J	0.48 J	1.94	0.21	0.20 U	0.20 U	0.44
Trichloroethene	0.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vinyl Chloride	0.20	0.28	0.28	6.5	0.53	0.20 U	0.20 U	0.62
Total Petroleum Hydrocarb	ons (µg/L)							
NWTPH-Gx (C7-C12)	800	1,640	1,740	258	100 U	100 U	100 U	100 U

Boeing Renton Facility, Renton, Washington

		Well ID <sup>3</sup>						
	Cleanup	Down	gradient Plum	e Area				
	Level <sup>4</sup>	GW038S	GW209S	GW210S				
Volatile Organic Compounds (µg/L)								
Benzene	0.80	0.20 U	0.20 U	0.28				
cis -1,2-Dichloroethene	0.70	0.20 U	0.20 U	0.20 U				
Trichloroethene	0.23	0.20 U	0.20 U	0.20 U				
Vinyl Chloride	0.20	0.20 U	0.20 U	0.20 U				
Total Petroleum Hydrocarbons (µg/L)								
NWTPH-Gx (C7-C12)	800	100 U	100 U	100 U				

					Well ID <sup>3</sup>					
	Cleanup		CPOC Area							
	Level <sup>4</sup>	GW143S	GW237S	GW238I	GW239I	GW240D	GW241S	GW242I		
Volatile Organic Compounds (µg/L)										
Benzene	0.80	0.20 U	0.43	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
cis -1,2-Dichloroethene	0.70	1.82	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
Trichloroethene	0.23	0.60	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
Vinyl Chloride	0.20	0.20 U	0.28	0.20 U	0.20 U	0.23	0.20 U	0.20 U		
Total Petroleum Hydrocarbons (µg/L)										
NWTPH-Gx (C7-C12)	800	100 U	499	100 U	100 U	100 U	100 U	100 U		

#### <u>Notes</u>

1. Data qualifiers are as follows:

U = The analyte was not detected at the reporting limit indicated.

J = This result is estimated.

2. **Bolded** values exceed the cleanup levels.

3. S = shallow well; I = intermediate well; D = deep well.

4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

#### Abbreviations

µg/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

field dup. = field duplicate

NWTPH-Gx = total petroleum hydrocarbons in gasoline range

# TABLE 10: AOC-001 AND -002 GROUNDWATER ELEVATION DATAAugust 15, 2018

# Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW185S	4.5 to 14.5	16.27	2.31	13.96
GW190S	3.0 to 13.0	17.30	3.17	14.13
GW191D	26.5 to 36.0	17.53	3.21	14.32
GW192S	5.0 to 9.5	17.54	3.48	14.06
GW193S	3.0 to 12.8	18.67	4.58	14.09
GW194S	7.3 to 12.0	16.79	3.90	12.89
GW195S	7.3 to 12.0	16.34	2.44	13.90
GW196D	26.8 to 36.8	16.46	2.50	13.96
GW197S	7.8 to 12.5	16.52	2.14	14.38
GW245S	3.0 to 13.0	16.08	2.49	13.59
GW246S	4.0 to 14.0	16.53	2.55	13.98

### <u>Notes</u>

1. S = shallow well; D = deep well.

2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

**Abbreviations** 

AOC = area of concern bgs = below ground surface TOC = top of casing

# TABLE 11: AOC-001, AOC-002, AND AOC-093 CONCENTRATIONS OF PRIMARY GEOCHEMICAL INDICATORS 1August 15, 2018

#### Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup>										
	Source Area		Downgradien	t Plume Area	a	CPOC Area <sup>3</sup>						
							GW185S					
	GW193S	GW190S	GW191D⁴	GW192S	GW246S	GW185S	(field dup.)	GW194S	GW195S	GW196D⁵	GW197S	GW245S
Temperature (degrees C)	23.20	23.90	25.20	23.70	24.30	22.50	22.50	21.30	21.00	22.10	23.00	22.90
Specific Conductivity (µS/cm)	1,300	725	431.3	548	364	759	759	820	795	454.4	1040	885
Dissolved Oxygen (mg/L)	0.19	0.16	0.16	0.40	0.13	0.39	0.39	0.28	0.17	0.28	0.16	0.13
pH (standard units)	6.40	6.23	6.49	6.04	6.27	6.47	6.47	6.20	6.28	6.38	7.03	7.01
Oxidation/Reduction Potential (mV)	20.0	19.8	-8.6	39.3	31.5	47.0	47.0	61.9	19.2	24.1	1.0	-8.8
Total Organic Carbon (mg/L)	36.47	13.29	5.09	9.30	4.1	11.93	11.75	20.46	17.45	7.77	12.39	12.47

#### <u>Notes</u>

1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured in the laboratory.

2. S = shallow well; D = deep well.

3. Wells GW185S through GW197S and GW246S are associated with the AOC-001 and AOC-002 cleanup action area.

4. GW191D is installed in a cluster with GW192S, and GW191D is screened below a silt layer at 26.5 to 36 feet in depth.

5. GW196D is installed in a cluster with GW195S, and GW196D is screened below a silt layer at 26.8 to 36.8 feet in depth.

#### Abbreviations

μS/cm = microsiemens per centimeter AOC = area of concern CPOC = conditional point of compliance degrees C = degrees Celsius field dup. = field duplicate mg/L = milligrams per liter mV = millivolts

# TABLE 12: AOC-001 AND AOC-002 CONCENTRATIONS OF CONSTITUENTS OF CONCERN 1,2AUGUST 15, 2018

### Boeing Renton Facility, Renton, Washington

			Well ID <sup>3</sup>										
		Source		Downgradient						CPOC Area			
	Cleanup	Area				1		GW185S (field)					
	Level <sup>4</sup>	GW193S	GW190S	GW191D ⁵	GW192S	GW246S	GW185S	dup.)	GW194S	GW195S	GW196D <sup>6</sup>	GW197S	GW245S
<b>Volatile Organic Compounds</b>	(µg/L)												
1,1-Dichloroethene	0.057	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.20 U	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Benzene	0.8	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.32	0.33	0.20 U	0.20 U	0.20 U	0.28	0.20 U
cis -1,2-Dichloroethene	0.02	1.14	0.446	0.020 U	1.15	0.25	0.217	0.224	0.020 U	0.0525	0.0229	0.0769	0.052
Trichloroethene	0.02	0.0472	0.020 U	0.020 U	0.0707	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.05	0.113	0.556	0.117	1.120	1.03	0.198	0.201	0.020 U	0.0583	0.0316	0.0275	0.0204

#### <u>Notes</u>

1. Data qualifiers are as follows:

U = The analyte was not detected at the reporting limit indicated.

J = This result is estimated.

2. **Bolded** values exceed the cleanup levels.

3. S = shallow well; D = deep well.

4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

5. GW191D is installed in a cluster with GW192S, and GW191D is screened below a silt layer at 26.5 to 36 feet in depth.

6. GW196D is installed in a cluster with GW195S, and GW196D is screened below a silt layer at 26.8 to 36.8 feet in depth.

**Abbreviations** 

μg/L = micrograms per liter AOC = area of concern CPOC = conditional point of compliance field dup. = field duplicate

# **TABLE 13: AOC-003 GROUNDWATER ELEVATION DATA** August 15, 2018

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW188S	3.5 to 13.5	18.78	4.10	14.68
GW247S	4 to 14	18.91	4.27	14.64
GW248I	10 to 20	18.78	4.02	14.76
GW249S	4 to 14	18.85	3.99	14.85

### <u>Notes</u>

1. S = shallow well; I = intermediate well.

2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

**Abbreviations** 

AOC = area of concern bgs = below ground surface TOC = top of casing

# TABLE 14: AOC-003 CONCENTRATIONS OF PRIMARY GEOCHEMICAL INDICATORS 1August 15, 2018

### Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup>							
	Source Area	Downgradient							
	Source Area	Plume Area	СРОС А	rea					
	GW249S	GW188S	GW247S	GW248I					
Temperature (degrees C)	25.30	21.40	25.00	25.20					
Specific Conductivity (µS/cm)	644	519	502	576					
Dissolved Oxygen (mg/L)	0.12	0.11	0.20	0.20					
pH (standard units)	6.32	6.25	6.40	6.29					
Oxidation/Reduction Potential (mV)	16.3	17.7	30.1	38.8					
Total Organic Carbon (mg/L)	16.94	11.56	9.52	11.72					

<u>Notes</u>

1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon,

which is measured in the laboratory. 2. S = shallow well; I = intermediate well.

#### **Abbreviations**

μS/cm = microsiemens per centimeter AOC = area of concern CPOC = conditional point of compliance degrees C = degrees Celsius mg/L = milligrams per liter mV = millivolts

# TABLE 15: AOC-003 CONCENTRATIONS OF CONSTITUENTS OF CONCERN 1,2AUGUST 15, 2018

Boeing Renton Facility, Renton, Washington

		Well ID <sup>3</sup>					
		Cleanup Source Area Downgradien					
	-			СРОС	Area		
	Level <sup>4</sup>	GW249S	GW188S	GW247S	GW248I		
Volatile Organic Compounds (µg/L)							
cis -1,2-Dichloroethene	0.78	0.0524	0.0386	0.081	0.020 U		
Tetrachloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U		
Trichloroethene	0.16	0.020 U	0.020 U	0.0291	0.020 U		
Vinyl Chloride	0.24	0.413	0.404	0.453	0.526		

<u>Notes</u>

1. Data qualifiers are as follows:

U = The analyte was not detected at the reporting limit indicated.

2. **Bolded** values exceed the cleanup levels.

3. S = shallow well; I = intermediate well.

4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

**Abbreviations** 

 $\mu$ g/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

# **TABLE 16: AOC-004 GROUNDWATER ELEVATION DATA** August 15, 2018

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW174S	4 to 14	19.56	4.30	15.26
GW250S	4 to 14	19.31	4.36	14.95

#### Notes

1. S = shallow well.

2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

#### **Abbreviations**

AOC = area of concern bgs = below ground surface TOC = top of casing

#### TABLE 17: AOC-004 CONCENTRATIONS OF PRIMARY GEOCHEMICAL INDICATORS <sup>1</sup> August 15, 2018

Boeing Renton Facility, Renton, Washington

	Well I	D <sup>2</sup>
	Source Area	CPOC Area
	GW250S	GW174S
Temperature (degrees C)	23.50	19.50
Specific Conductivity (µS/cm)	149.6	167.4
Dissolved Oxygen (mg/L)	0.25	0.08
pH (standard units)	6.64	6.46
Oxidation/Reduction Potential (mV)	44.1	52.0

<u>Notes</u>

1. Primary geochemical indicators are measured in the field.

2. S = shallow well

**Abbreviations** 

μS/cm = microsiemens per centimeter AOC = area of concern CPOC = conditional point of compliance degrees C = degrees Celsius mg/L = milligrams per liter mV = millivolts

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## TABLE 18: AOC-004 CONCENTRATIONS OF CONSTITUENTS OF CONCERN1AUGUST 15, 2018

Boeing Renton Facility, Renton, Washington

		Wel	ID <sup>2</sup>
		Source Area	CPOC Area
	Cleanup Level <sup>3</sup>	GW250S	GW174S
Metals (mg/L)			
Lead	0.001	0.00107	0.000762

<u>Notes</u>

1. **Bolded** values exceed the cleanup levels.

2. S = shallow well.

3. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

Abbreviations

AOC = area of concern

CPOC = conditional point of compliance

mg/L = milligrams per liter

## TABLE 19: AOC-060 GROUNDWATER ELEVATION DATAAugust 14, 2018

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW009S	4.5 to 14.5	19.36	5.25	14.11
GW010S	4.5 to 14.5	19.47	5.41	14.06
GW011D	29 to 39	19.49	5.44	14.05
GW012S	4.5 to 14.5	19.11	5.03	14.08
GW014S	4.5 to 14.5	19.24	5.10	14.14
GW147S	5 to 15	18.73	4.71	14.02
GW149S	5 to 15	19.19	5.20	13.99
GW150S	5 to 15	19.10	5.11	13.99
GW252S	4 to 14	19.01	5.02	13.99
GW253I	10 to 20	19.02	5.06	13.96
GW254S	4 to 14	19.16	5.20	13.96

#### <u>Notes</u>

1. S = shallow well; D = deep well; I = intermediate well.

2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

#### **Abbreviations**

AOC = area of concern bgs = below ground surface TOC = top of casing

## TABLE 20: AOC-060 CONCENTRATIONS OF PRIMARY GEOCHEMICAL INDICATORS 1August 14, 2018

#### Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup>								
	Source									
	Area		Downgradie	nt Plume Area				<b>CPOC</b> Area		
				GW014S						
	GW009S	GW012S	GW014S	(field dup.)	GW147S	GW149S	GW150S	GW252S	GW253I	GW254S
Temperature (degrees C)	21.10	22.80	21.50	21.50	20.40	17.90	21.30	21.80	20.60	20.40
Specific Conductivity (µS/cm)	412.5	2404	416.3	416.3	2613	225.7	390.6	639.0	372.1	557
Dissolved Oxygen (mg/L)	0.23	0.27	0.55	0.55	0.51	0.28	0.20	0.40	0.21	0.26
pH (standard units)	6.32	4.64	6.28	6.28	4.60	6.25	6.32	6.66	6.47	6.55
Oxidation/Reduction Potential (mV)	15.0	100.4	115.5	115.5	34.6	104.6	-3.7	61.1	59.8	-7.8
Total Organic Carbon (mg/L)	7.95	3,397	5.76	3.09	4,288	4.49	8.20	7.38	5.42	10.91

#### <u>Notes</u>

1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured in the laboratory.

2. S = shallow well; I = intermediate well.

 $\label{eq:spectral_spectrum} \begin{array}{l} \underline{Abbreviations} \\ \mu S/cm = microsiemens \ per \ centimeter \\ AOC = area \ of \ concern \\ CPOC = \ conditional \ point \ of \ compliance \\ degrees \ C = \ degrees \ Celsius \end{array}$ 

field dup. = field duplicate mg/L = milligrams per liter mV = millivolts

## TABLE 21: AOC-060 CONCENTRATIONS OF CONSTITUENTS OF CONCERN 1,2AUGUST 14, 2018

Boeing Renton Facility, Renton, Washington

			Well ID <sup>3</sup>								
		Source									
		Area	Downgradient Plume Area CPOC Area								
	Cleanup			GW014S							
	Levels <sup>4</sup>	GW009S	GW012S	GW014S	(field dup.)	GW147S	GW149S	GW150S	GW252S	GW253I	GW254S
Volatile Organic Compounds	s (µg/L)										
cis -1,2-Dichloroethene	0.08	0.126	1.29	0.122	0.122	4.63	0.0441	0.0506	0.0266	0.0796	0.0926
Trichloroethene	0.02	0.0238	0.656	0.0273	0.0244	4.23	0.020 U	0.0305	0.020 U	0.0204	0.020 U
Vinyl Chloride	0.26	0.318	0.605 J	0.232 J	0.228 J	1.070 J	0.0399 J	0.0203 J	0.020 U	0.113	0.0418 J

<u>Notes</u>

1. Data qualifiers are as follows:

U = The analyte was not detected at the reporting limit indicated.

J = This result is estimated.

2. **Bolded** values exceed the cleanup levels.

3. S = shallow well; I = intermediate well.

4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

#### Abbreviations

 $\mu$ g/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

## TABLE 22: AOC-090 GROUNDWATER ELEVATION DATAAugust 13, 2018

Boeing Renton Facility, Renton, Washington

	Screen Interval Depth	TOC Elevation	Depth to Groundwater	Groundwater Elevation
Well ID <sup>1</sup>	(feet bgs)	(feet) <sup>2</sup>	(feet below TOC)	(feet) <sup>2</sup>
GW163I	25 to 35	21.27	6.79	14.48
GW165I	25 to 35	21.14	7.43	13.71
GW175I	21.2 to 26.1	20.57	6.45	14.12
GW176S	10 to 14.3	20.15	6.12	14.03
GW177I	21.7 to 26	22.51	8.34	14.17
GW178S	11.2 to 15.5	22.73	8.57	14.16
GW179I	21.5 to 26	20.47	6.46	14.01
GW180S	10.5 to 15	20.56	6.51	14.05
GW189S	4 to 14	22.01	7.85	14.16
GW207S	7.3 to 12	21.12	6.89	14.23
GW208S	6.3 to 11	22.45	8.21	14.24

<u>Notes</u>

1. S = shallow well; I = intermediate well.

2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

**Abbreviations** 

AOC = area of concern bgs = below ground surface TOC = top of casing

### TABLE 23: AOC-090 CONCENTRATIONS OF PRIMARY GEOCHEMICAL INDICATORS 1August 13, 2018

Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup>										
	Source Area	Downgradie	nt Plume Area		Shallow Zone CPOC Area				Intermediate Zone CPOC Area			
						GW180s						
	GW189S <sup>3</sup>	GW175I	GW176S	GW178S	GW180S	(field dup.)	GW207S	GW208S	GW163I	GW165I	GW177I	GW179I
Temperature (degrees C)	24.60	22.00	22.60	16.28	21.13	21.13	19.70	20.16	20.00	23.00	16.13	19.98
Specific Conductivity (µS/cm)	2496	540	729	438	329	329	480.1	574	369.9	397.5	649	530
Dissolved Oxygen (mg/L)	0.86	0.40	0.20	0.11	0.22	0.22	0.19	0.11	0.29	0.26	0.16	0.25
pH (standard units)	4.54	6.31	6.28	6.18	6.19	6.19	6.21	6.99	6.11	6.12	6.34	6.12
Oxidation/Reduction Potential (mV)	61.9	-16.6	-20.8	-74.5	-39.1	-39.1	3.7	-98.1	7.3	47.3	-91.6	-85.6
Total Organic Carbon (mg/L)	3,752	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

#### Notes

1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured in the laboratory.

2. S = shallow well; I = intermediate well.

3. GW189S is the replacement well for GW168S.

#### Abbreviations

 $\mu$ S/cm = microsiemens per centimeterfield dup.AOC = area of concernmg/L = nCPOC = conditional point of compliancemV = mildegrees C = degrees CelsiusNA = not

field dup. = field duplicate mg/L = milligrams per liter mV = millivolts NA = not analyzed

# TABLE 24: AOC-090 CONCENTRATIONS OF CONSTITUENTS OF CONCERN 1,2August 13, 2018

Boeing Renton Facility, Renton, Washington

							Well ID <sup>3</sup>						
		Source Area	Downgradier	nt Plume Area		Shal	ow Zone CPOC	Area		Int	termediate Z	one CPOC Ai	rea
	Cleanup						GW180S						
	Levels <sup>4</sup>	GW189S ⁵	GW175I	GW176S	GW178S	GW180S	(field dup.)	GW207S	GW208S	GW163I	GW165I	GW177I	GW179I
/olatile Organic Compounds (μg/L) 0.02 U													
1,1,2,2-Tetrachloroethane	0.17	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
1,1,2-Trichloroethane	0.2	2.00 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	0.057	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.023	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Acetone	300	70.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzene	0.8	2.42	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Carbon Tetrachloride	0.23	2.00 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloroform	2	2.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	2.4	22.3	0.20 U	0.27	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Methylene Chloride	2	10.9 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene	0.05	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	75	21.7	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	53.9	2.00 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichloroethene	0.08	2.38	0.02 U	0.02 U	0.0213	0.02 U	0.02 U	0.0388	0.0234	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl Chloride	0.13	2.09 J	0.02 U	0.230	0.378	0.02 U	0.0243	0.311 J	0.0973	0.02 U	0.02 U	0.0303	0.02 U
Total Petroleum Hydrocarbon	Total Petroleum Hydrocarbons (µg/L)												
NWTPH-Gx (C7-C12)	800	9,440	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
DRO (C12-C24)	500	4,120	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
HRO (C24-C40)	500	2,000 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U

#### <u>Notes</u>

1. Data qualifiers are as follows:

U = The analyte was not detected at the reporting limit indicated.

J = This result is estimated.

2. **Bolded** values exceed the cleanup levels.

3. S = shallow well; I = well in intermediate zone.

4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

5. GW189S is the replacement well for GW168S.

#### Abbreviations

µg/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

DRO = diesel range organics

HRO = heavy range organics in the motor oil range

NWTPH-Gx = total petroleum hydrocarbons in gasoline range

## TABLE 25: BUILDING 4-70 GROUNDWATER ELEVATION DATAAugust 15, 2018

тос Groundwater **Screen Interval** Depth to Elevation Elevation Depth Groundwater Well ID<sup>1</sup> (feet)<sup>2</sup> (feet)<sup>2</sup> (feet bgs) (feet below TOC) GW259S 5 to 15 19.72 5.65 14.07 GW260S 5 to 15 19.83 5.80 14.03

Boeing Renton Facility, Renton, Washington

#### <u>Notes</u>

1. S = shallow well.

2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

Abbreviations

bgs = below ground surface TOC = top of casing

### TABLE 26: BUILDING 4-70 CONCENTRATIONS OF PRIMARY

#### **GEOCHEMICAL INDICATORS** $^{1}$

#### August 15, 2018

Boeing Renton Facility, Renton, Washington

	Wel	ID <sup>2</sup>		
	CPOC Area			
	GW259S	GW260S		
Temperature (degrees C)	18.30	18.90		
Specific Conductivity (µS/cm)	191.7	293.6		
Dissolved Oxygen (mg/L)	1.48	0.38		
pH (standard units)	6.32	6.16		
Oxidation/Reduction Potential (mV)	105.2	73.9		
Total Organic Carbon (mg/L)	3.91	9.78		

<u>Notes</u>

1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured in the laboratory.

2. S = shallow well

#### **Abbreviations**

µS/cm = microsiemens per centimeter AOC = area of concern CPOC = conditional point of compliance degrees C = degrees Celsius mg/L = milligrams per liter mV = millivolts

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## TABLE 27: BUILDING 4-70 CONCENTRATIONS OF CONSTITUENTS OF CONCERN 1, 2AUGUST 15, 2018

			ID <sup>3</sup> Area
	Cleanup Level <sup>4</sup>	GW259S	GW260S
Volatile Organic Compounds (µg/L)			
cis-1,2-Dichloroethene	16	0.49	0.20 U
Trichloroethene	0.54	0.70	0.20 U
Vinyl Chloride	0.2	0.20 U	0.22

Boeing Renton Facility, Renton, Washington

<u>Notes</u>

- 1. Data qualifiers are as follows:
  - U = The analyte was not detected at the reporting limit indicated.
- 2. Bolded values exceed the cleanup levels.
- 3. S = shallow well
- 4. Cleanup levels obtained from Washington State Department of Ecology email to Boeing on December 30, 2015.

Abbreviations

- $\mu$ g/L = micrograms per liter
- CPOC = conditional point of compliance



## Appendix A



#### TABLE A-1: GROUNDWATER COMPLIANCE MONITORING SCHEDULE

Boeing Renton Facility, Renton, Washington

Cleanup Action	Monitorin	g Frequency <sup>1</sup>		Groundwate	er Monitoring Wells <sup>2</sup>		Additional Water Level		
Area	Quarterly	Semiannual	Cross-Gradient Wells	Source Area Wells	Downgradient Plume Wells	CPOC Wells	Monitoring Wells <sup>3</sup>	Constituents of Concern <sup>4</sup>	Analyses <sup>5</sup>
SWMU-168		X (1,3)	NA	GW228S <sup>7</sup>	NA	GW229S, GW230I, and GW231S		VC	SW8260C SIM
SWMU-172/SWMU-174	x		NA	GW152S and GW153S	GW081S, GW172S, GW173S, and	GW232S, GW233I, GW234S,		cis -1,2-DCE, PCE, TCE, VC	SW8260C SIM <sup>6</sup>
					GW226S	GW235I, and GW236S		Arsenic, copper, and lead	EPA 6020A
Building 4-78/79 SWMU/AOC	x		NA	GW031S, GW033S, GW034S,	GW038S, GW209S, and GW210S	GW143S, GW237S, GW238I, GW239I, GW240D, GW241S, and		VC, TCE, <i>cis</i> -1,2-DCE, benzene	SW8260C <sup>6</sup>
Group	~			GW039S, GW243I, and GW244S	GW0303, GW2033, and GW2103	GW242I		TPH-gasoline	NWTPH-Gx
Former Fuel Farm SWMU/AOC Group		X (2,4)	NA	GW255S, GW256S, and GW257S	NA	GW183S, GW184S, GW211S,GW212S, GW221S,		TPH-jet fuel, TPH-diesel	NWTPH-Dx
	x	X (1,3) (all other	NIA	C) 1/10.25	GW190S, GW191D, GW192S, and	GW185S, GW194S, GW195S,		Benzene	SW8260C <sup>6</sup>
AOC-001/AOC-002	(CPOC wells)	wells)	NA	GW193S	GW246S	GW196D, GW197S, and GW245S		TCE, <i>cis</i> -1,2-DCE, 1,1-dichloroethene, VC	SW8260C SIM <sup>6</sup>
100 000	V (CDOC	X (1,3) (all other	N14	GW249S	CI.1/100C	CW2475 and CW249		PCE, TCE	SW8260C SIM <sup>6</sup>
AOC-003	X (CPOC wells)	wells)	NA	GW2495	GW188S	GW247S and GW248I		cis -1,2-DCE, VC	3008200C 310
AOC-004		X (1,3)	NA	GW250S	NA	GW174S		Lead	EPA 6020A
AOC-034/AOC-035		X (2,4)	GW216S	GW217S	NA	GW218S and GW251S	GW001S, GW004S, and GW005S	VC, <i>cis</i> -1,2-DCE	SW8260C <sup>6</sup>
AOC-060		X (1,3)	GW012S and GW014S	GW0095	GW1475	GW149S, GW150S, GW252S,	GW010S and GW011D	VC	SW8260C SIM <sup>6</sup>
AUC-060		× (1,5)	GW0125 and GW0145	GW0093	GW1473	GW253I, and GW254S	GW0105 and GW011D	TCE, cis -1,2-DCE	SW8260C SIM
								1,1,2-Trichloroethane, acetone, benzene, toluene, carbon tetrachloride, chloroform, <i>cis</i> -1,2-DCE,	SW8260C <sup>6</sup>
				0.000		GW163I, GW165I, GW177I, GW178S,		1,1-Dichloroethene, 1,1,2,2-tetrachloroethane, VC, PCE, TCE	SW8260C SIM <sup>6</sup>
AOC-090		X (1,3)	NA	GW189S	GW175I and GW176S	GW179I, GW180S, GW207S, and GW208S		TPH-gasoline	NWPTH-Gx
								TPH-diesel, TPH-motor oil	NWTPH-Dx
Building 4-70 Area		X (1,3)	NA	NA	NA	GW259S and GW260S		TCE, cis -1,2-DCE, VC	SW8260C <sup>6</sup>
ot 20/Former Building 10-71		X (2,4)	NA	10-71-MW1, 10-71-MW2, and 10-71-MW4	NA	NA		Toluene, cis-1,2-DCE, TCE, VC	SW8260C <sup>6</sup>
Apron A		X (2,4)	NA	GW262S and GW264S	NA	NA		cis -1,2-DCE and VC	SW8260C <sup>6</sup>

Notes:

1. The EDR presents the groundwater monitoring frequency for each SWMU/AOC. For sites with semiannual monitoring frequency, specific quarters when monitoring will be conducted is indicated by 1 for quarter 1, 2 for quarter 2, etc.

2. Groundwater monitoring wells are also monitored for groundwater levels.

3. Additional wells are monitored for groundwater levels only.

4. In addition to COCs, primary geochemical indicators will be monitored during each regular monitoring event. Geochemical indicators are listed in Table A-2.

5. Details of analytical methods are specified in the Quality Assurance Project Plan, which is Appendix E to the Cleanup Action Plan (AMEC, 2012).

6. SIM methods will be used if the cleanup level is lower than the reporting limit achieved by the conventional 8021, 8260 or 8270 method. If cleanup levels become higher or if the conventional 8021, 8260 or 8270 methods are updated and able to achieve reporting limits below the cleanup levels, then the conventional method rather than the SIM method will be used.

7. GW228S will not be monitored on a semiannual basis - only the CPOC wells will be monitored on a semiannual basis for SWMU-168.

Abbreviations:	
AOC = area of concern	PCE = tetrachloroethene
<i>cis</i> -1,2-DCE = <i>cis</i> -1,2 dichloroethene	SIM = selected ion monitoring
COCs = constituents of concern	SWMU = solid waste management unit
CPOC = conditional point of compliance	TCE = trichloroethene
Cr = chromium	TPH = total petroleum hydrocarbons
EDR = Engineering Design Report	<i>trans</i> -1,2-DCE = <i>trans</i> -1,2 dichloroethene
EPA = Environmental Protection Agency	VC = vinyl chloride
NA = not applicable	VOCs = volatile organic compounds

#### TABLE A-2: MONITORED NATURAL ATTENUATION/MONITORED ATTENUATION SCHEDULE

Boeing Renton Facility, Renton, Washington

					Primary Geochemical Para	meters <sup>2</sup>	
Cleanup Action		Groundwater	Monitoring Wells			Monitorin	ig Frequency <sup>3</sup>
Area	Cross-Gradient Wells	Source Area Wells	Downgradient Plume Wells	CPOC Wells	Indicators	Quarterly	Semiannual
SWMU-168	NA	GW2285 <sup>4</sup>	NA	GW229S, GW230I, and GW231S	Dissolved oxygen, pH, ORP, temperature, specific conductance		X (1,3)
SWMU-172/SWMU-174	NA	GW152S and GW153S	GW081S, GW172S, GW173S, and GW226S	GW232S, GW233I, GW234S, GW235I, and GW236S	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC	x	
Building 4-78/79 SWMU/AOC Group	NA	GW031S, GW033S, GW034S, GW039S, GW243I, and GW244S	GW038S, GW209S, and GW210S	GW143S, GW237S, GW238I, GW239I, GW240D, GW241S, and GW242I	Dissolved oxygen, pH, ORP, temperature, specific conductance in all wells, TOC in all wells except GW241S and GW242I	x	
Former Fuel Farm SWMU/AOC Group	NA	GW255S, GW256S, and GW257S	NA	GW183S, GW184S, GW211S,GW212S, GW221S, GW224S, and GW258S	Dissolved oxygen, pH, ORP, temperature, specific conductance		X (2,4)
AOC-001/AOC-002	NA	GW193S	GW190S, GW191D, GW192S, and GW246S	GW185S, GW194S, GW195S, GW196D, GW197S, and GW245S	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC	X (CPOC wells)	X (1,3) (all other wells)
AOC-003	NA	GW249S	GW188S	GW247S and GW248I	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC	X (CPOC wells)	X (1,3) (all other wells)
AOC-004	NA	GW250S	NA	GW174S	Dissolved oxygen, pH, ORP, temperature, specific conductance		X (1,3)
AOC-034/AOC-035	GW216S	GW217S	NA	GW218S and GW251S	Dissolved oxygen, pH, ORP, temperature, specific conductance		X (2,4)
AOC-060	GW012S and GW014S	GW0095	GW147S	GW149S, GW150S, GW252S, GW253I, and GW254S	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC		X (1,3)
AOC-090	NA	GW189S	GW175I and GW176S	GW163I, GW165I, GW177I, GW178S, GW179I, GW180S, GW207S, and GW208S	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC <sup>5</sup>		X (1,3)
Building 4-70 Area	NA	NA	NA	GW259S and GW260S	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC		X (1,3)
Apron A	NA	GW262S and GW264S	NA	NA	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC		X (2,4)

#### Notes:

1. In addition to COCs listed in Table A-1, primary geochemical indicators will be monitored during each regular monitoring event.

2. All primary geochemical indicators except TOC are monitored in the field during sampling. TOC is analyzed in the laboratory following methods specified in the Quality Assurance Project Plan, which is Appendix E to the Cleanup Action Plan (AMEC, 2012).

The primary geochemical indicators differ slightly depending on whether the site is a fuel-related site or a solvent-related site. At a fuel related site, TOC is not necessary; at a solvent-related site, TOC is a measure of how much electron donor remains present.

The EDR presents the groundwater monitoring frequency for each SWMU/AOC. For sites with semiannual monitoring frequency, specific quarters when monitoring will be conducted is indicated by 1 for quarter 1, 2 for quarter 2, etc.

4. Primary geochemical parameters will not be collected at GW228S - only at CPOC wells that are sampled semiannually.

5. TOC will only be analyzed in the groundwater from the source area well (GW189S).

#### Abbreviations:

AOC = area of concernCOCs = constituents of concernCPOC = conditional point of complianceEDR = Engineering Design ReportNA = not applicableORP = oxidation reduction potentialSWMU = solid waste management unitTOC = total organic carbon



## **Appendix B**



Project Nam	ie:	Boeing Ren	ton		Project Number	r: (	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@ 94	-6		
Sample Nun	nber:	RGW229S-	-		Weather:	60'S, PARTLY SU			
Landau Rep		JHA			-	· ·			
WATERIE	/EL/WELL/PU	IRCE DATA							
Well Condition		Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before		9.39		-	Flow through cel	-		GW Meter No.(s	SLOPE 2
	Date/Time:			End Purge:		<u>8/13</u> /2018 @ 942		Gallons Purged:	
Purge water d			55-gal Drum	Ĕ	Storage Tank	Ground		SITE TREATM	
i aige water a	-		U		-				
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
		ls: Stablizatio	on of Parame		consecutive read	lings within the foll	owing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
924	21.63	317	0.86	5.76	58.8	HIGH		<0.25	AT LOWEST SETTING
927	21.68	317	0.82	5.88	54.1				
930	21.93	317	0.80	5.92	53.7				
933		315	0.81	6.06	50.3				
936		314	0.77	6.07	49.6				
939	22.45	314	0.84	6.08	49.4				
	<b>LLECTION I</b>	_							
Sample Collec	cted With:		Bailer			DED BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Wa	sh 📋	Tap Rinse	DI Water	Dedicated			
(By Numerica	u Oraer)	D Other							
Same la Dagan	intion (solon )	nobe ratio	ale and at a ).	VEDV TUD		AV COLOD NO/N	C		
Sample Descr	ription (color, t	turbidity, odor	, sheen, etc.):	VERY TUR	BID, BROWN/GH	RAY COLOR, NO/N	IS		
Sample Descr Replicate	ription (color, t	turbidity, odor	, sheen, etc.):	VERY TUR	BID, BROWN/GF	RAY COLOR, NO/N Turbidity	DTW	Ferrous iron	Comments/
		-						Ferrous iron (Fe II)	Comments/ Observations
	Temp	Cond.	D.O.		ORP	Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity	DTW		
Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 22.52	Cond. (uS/cm) 314 314	D.O. (mg/L) 0.85	<b>рН</b> 6.09	ORP (mV) 49.5	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C)           22.52           22.53           22.54	Cond. (uS/cm) 314 314 315	D.O. (mg/L) 0.85 0.85 0.84	<b>pH</b> 6.09 6.09 6.09	ORP (mV) 49.5 49.6 49.6	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 22.52 22.53 22.53 22.54 22.58	Cond. (uS/cm) 314 314 315 314	D.O. (mg/L) 0.85 0.85 0.84 0.85	<b>pH</b> 6.09 6.09 6.09 6.09	ORP (mV) 49.5 49.6 49.6 49.6	Turbidity (NTU)	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.52 22.53 22.53 22.54 22.58 22.54	Cond. (uS/cm) 314 314 315 314 314 314	D.O. (mg/L) 0.85 0.85 0.84 0.85 0.85	<b>pH</b> 6.09 6.09 6.09 6.09 6.09	ORP (mV) 49.5 49.6 49.6 49.6 49.6	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 22.52 22.53 22.53 22.54 22.58 22.54 TYPICAL A	Cond. (uS/cm) 314 314 315 314 314 314 NALYSIS AI	D.O. (mg/L) 0.85 0.85 0.84 0.85 0.85 0.85	pH 6.09 6.09 6.09 6.09 6.09 8. BOTTLE	ORP (mV) 49.5 49.6 49.6 49.6 49.6 TYPE (Circle ap	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.52 22.53 22.54 22.58 22.54 22.58 22.54 TYPICAL A (8260C SIM )	Cond. (uS/cm) 314 314 315 314 314 314 NALYSIS AI VC) (8010)	D.O. (mg/L) 0.85 0.85 0.85 0.85 0.85 LLOWED PE (8020) (NW	pH 6.09 6.09 6.09 6.09 6.09 6.09 8. BOTTLE TPH-G) (NV	ORP (mV) 49.5 49.6 49.6 49.6 49.6 TYPE (Circle ap WTPH-Gx) (BT	Turbidity (NTU) #DIV/0! plicable or write no	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 22.52 22.53 22.54 22.54 22.54 22.54 TYPICAL A (8260C SIM ) (8270) (PAH	Cond. (uS/cm) 314 314 315 314 314 314 314 VC) (8010) H) (NWTPH-	D.O. (mg/L) 0.85 0.85 0.84 0.85 0.85 0.85 0.85 CLOWED PE (8020) (NW D) (NWTPH	pH 6.09 6.09 6.09 6.09 6.09 6.09 6.09 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7	ORP (mV) 49.5 49.6 49.6 49.6 49.6 49.6 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (	Turbidity (NTU) #DIV/0! plicable or write no EX) 8141) (Oil & Greas	DTW (ft) on-standard an	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 22.52 22.53 22.54 22.54 22.54 22.54 22.54 (8260C SIM (8270) (PAF (9PH) (Condu	Cond. (uS/cm) 314 314 315 314 314 314 NALYSIS AI VC) (8010) I) (NWTPH- ictivity) (TD	D.O. (mg/L) 0.85 0.85 0.85 0.85 0.85 0.85 LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B	pH 6.09 6.09 6.09 6.09 6.09 6.09 7PH-G) (NV 1-Dx) (TPH- OD) (Turbio	ORP (mV) 49.5 49.6 49.6 49.6 49.6 49.6 7YPE (Circle ap WTPH-Gx) (BT HCID) (8081) ( dity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write no EX) 8141) (Oil & Greas (HCO3/CO3) (Cl	DTW (ft) on-standard an	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 22.52 22.53 22.54 22.58 22.54 22.58 22.54 <b>TYPICAL A</b> (8260C SIM (8270) (PAH (9H) (Condu (COD) (TOO	Cond. (uS/cm) 314 314 315 314 314 314 NALYSIS AI VC) (8010) H) (NWTPH- ictivity) (TD) C SM5310C)	D.O. (mg/L) 0.85 0.85 0.85 0.85 0.85 LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4)	pH 6.09 6.09 6.09 6.09 6.09 6.09 7PH-G) (NV -Dx) (TPH- OD) (Turbio (Total Kieda	ORP (mV) 49.5 49.6 49.6 49.6 49.6 49.6 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (	Turbidity (NTU) #DIV/0! plicable or write no EX) 8141) (Oil & Greas (HCO3/CO3) (Cl	DTW (ft) on-standard an	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 22.52 22.53 22.54 22.58 22.54 22.58 22.54 TYPICAL A (8260C SIM (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanic	Cond. (uS/cm) 314 314 315 314 314 314 NALYSIS AI VC) (8010) H) (NWTPH- activity) (TD) C SM5310C) He) (WAD Cy	D.O. (mg/L) 0.85 0.85 0.85 0.85 0.85 CLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) anide) (Free	pH 6.09 6.09 6.09 6.09 6.09 6.09 6.09 6.09 7.00 7.	ORP (mV) 49.5 49.6 49.6 49.6 49.6 TYPE (Circle ap WTPH-Gx) (BT) HCID) (8081) ( dity) (Alkalinity) hl Nitrogen) (NH	Turbidity (NTU) #DIV/0! #DIV/0! plicable or write no EX) 8141) (Oil & Greas (HCO3/CO3) (Cl (3) (NO3/NO2)	DTW (ft) on-standard an se) ) (SO4) (NO	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           22.52           22.53           22.54           22.54           22.54           22.54           22.54           22.54           22.54           22.54           22.54           (8260C SIM*)           (8270) (PAF           (PH) (Condu           (COD) (TOO           (Total Cyanic)           (Total Metals)	Cond. (uS/cm) 314 314 315 314 314 314 314 0 VC) (8010) H) (NWTPH- activity) (TD C SM5310C) le) (WAD Cy ) (As) (Sb) (	D.O. (mg/L) 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85	pH 6.09 6.09 6.09 6.09 6.09 6.09 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 7.	ORP (mV) 49.5 49.6 49.6 49.6 49.6 49.6 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) ( dity) (Alkalinity) hl Nitrogen) (NH (Cr) (Cu) (Fe) (	Turbidity (NTU) #DIV/0! plicable or write no EX) 8141) (Oil & Greas (HCO3/CO3) (Cl	DTW (ft) on-standard an se) ) (SO4) (NO	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           22.52           22.53           22.54           22.54           22.54           22.54           22.54           22.54           22.54           22.54           22.54           (8260C SIM*)           (8270) (PAF           (PH) (Condu           (COD) (TOO           (Total Cyanic)           (Total Metals)	Cond. (uS/cm) 314 314 314 314 314 314 NALYSIS AI VC) (8010) I) (NWTPH- ictivity) (TD C SM5310C) Ie) (WAD Cy ) (As) (Sb) ( ictals) (As) (Sb)	D.O. (mg/L) 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85	pH 6.09 6.09 6.09 6.09 6.09 6.09 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 7.	ORP (mV) 49.5 49.6 49.6 49.6 49.6 49.6 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) ( dity) (Alkalinity) hl Nitrogen) (NH	Turbidity (NTU)           #DIV/0!           plicable or write note           EX)           8141) (Oil & Greas           (HCO3/CO3) (Cl           (3) (NO3/NO2)           Pb) (Mg) (Mn) (Ni	DTW (ft) on-standard an se) ) (SO4) (NO	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 22.52 22.53 22.53 22.54 22.58 22.54 22.58 22.54 (8260C SIM (8260C SIM (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanic (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 314 314 314 314 314 314 NALYSIS AI VC) (8010) I) (NWTPH- ictivity) (TD C SM5310C) Ie) (WAD Cy ) (As) (Sb) ( ictals) (As) (Sb)	D.O. (mg/L) 0.85 0.85 0.85 0.85 0.85 0.85 LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.09 6.09 6.09 6.09 6.09 6.09 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 7.	ORP (mV) 49.5 49.6 49.6 49.6 49.6 49.6 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) ( dity) (Alkalinity) hl Nitrogen) (NH	Turbidity (NTU)           #DIV/0!           plicable or write note           EX)           8141) (Oil & Greas           (HCO3/CO3) (Cl           (3) (NO3/NO2)           Pb) (Mg) (Mn) (Ni	DTW (ft) on-standard an se) ) (SO4) (NO	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 22.52 22.53 22.53 22.54 22.58 22.54 22.58 22.54 (8260C SIM (8260C SIM (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanic (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 314 314 315 314 314 314 NALYSIS AI VC) (8010) H) (NWTPH- ictivity) (TD) C SM5310C) H) (NWTPH- ictivity) (TD) C SM5310C) H) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb)	D.O. (mg/L) 0.85 0.85 0.85 0.85 0.85 0.85 LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.09 6.09 6.09 6.09 6.09 6.09 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 7.	ORP (mV) 49.5 49.6 49.6 49.6 49.6 49.6 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) ( dity) (Alkalinity) hl Nitrogen) (NH	Turbidity (NTU)           #DIV/0!           plicable or write note           EX)           8141) (Oil & Greas           (HCO3/CO3) (Cl           (3) (NO3/NO2)           Pb) (Mg) (Mn) (Ni	DTW (ft) on-standard an se) ) (SO4) (NO	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           22.52           22.53           22.54           22.58           22.54           22.54           22.54           22.54           22.54           22.54           22.54           22.54           (8260C SIM')           (8270) (PAH           (PH) (Condu           (COD) (TOO           (Total Cyanic           (Total Metals)           (Dissolved M           VOC (Boein           Methane Eth	Cond. (uS/cm) 314 314 315 314 314 314 VC) (8010) H) (NWTPH- ictivity) (TD) C SM5310C) H) (NWTPH- ictivity) (TD) C SM5310C) H) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb)	D.O. (mg/L) 0.85 0.85 0.85 0.85 0.85 0.85 LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.09 6.09 6.09 6.09 6.09 6.09 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 7.	ORP (mV) 49.5 49.6 49.6 49.6 49.6 49.6 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) ( dity) (Alkalinity) hl Nitrogen) (NH	Turbidity (NTU)           #DIV/0!           plicable or write note           EX)           8141) (Oil & Greas           (HCO3/CO3) (Cl           (3) (NO3/NO2)           Pb) (Mg) (Mn) (Ni	DTW (ft) on-standard an se) ) (SO4) (NO	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 22.52 22.53 22.53 22.54 22.58 22.54 22.58 22.54 (8260C SIM (8260C SIM (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanic (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 314 314 315 314 314 314 VC) (8010) H) (NWTPH- ictivity) (TD) C SM5310C) H) (NWTPH- ictivity) (TD) C SM5310C) H) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb)	D.O. (mg/L) 0.85 0.85 0.85 0.85 0.85 0.85 LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.09 6.09 6.09 6.09 6.09 6.09 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 6.09 7.00 7.	ORP (mV) 49.5 49.6 49.6 49.6 49.6 49.6 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) ( dity) (Alkalinity) hl Nitrogen) (NH	Turbidity (NTU)           #DIV/0!           plicable or write note           EX)           8141) (Oil & Greas           (HCO3/CO3) (Cl           (3) (NO3/NO2)           Pb) (Mg) (Mn) (Ni	DTW (ft) on-standard an se) ) (SO4) (NO	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           22.52           22.53           22.54           22.58           22.54           22.58           22.54           22.54           22.58           22.54           22.54           22.54           7YPICAL A           (8260C SIM')           (8270) (PAF           (PH) (Condu           (COD) (TOO           (Total Cyanic           (Total Metals           (Dissolved M           VOC (Boein           Methane Eth           others	Cond. (uS/cm) 314 314 314 315 314 314 314 NALYSIS AI VC) (8010) H) (NWTPH- tetivity) (TD) C SM5310C) H) (NWTPH- tetivity) (TD) C SM5310C) H) (NAD Cy ) (As) (Sb) ( etals) (As) (Sb) g short list) hane Ethene Ac	D.O. (mg/L) 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85	pH 6.09 6.	ORP (mV) 49.5 49.6 49.6 49.6 7YPE (Circle ap WTPH-Gx) (BT HCID) (8081) ( dity) (Alkalinity) hl Nitrogen) (NH (Cr) (Cu) (Fe) (Pt (Cr) (Cu) (Fe) (Pt	Turbidity (NTU)           #DIV/0!           plicable or write note           EX)           8141) (Oil & Greas           (HCO3/CO3) (Cl           (3) (NO3/NO2)           Pb) (Mg) (Mn) (Ni	DTW (ft)	(Fe II)	Observations



Project Nam	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@ 91	16		
Sample Num	ber:	RGW230I-	-		Weather:	60'S, PARTLY S	UINNY		
Landau Repr		JHA			-				
WATER LEV	EL/WELL/PU	URGE DATA							
Well Conditio	n:	Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	8.69	Time:	835	Flow through cel	l vol.		GW Meter No.(s	SLOPE 2
Begin Purge:	Date/Time:	8/ 13 /2018	@ 852	End Purge:	Date/Time:	8/13 /2018 @ 911	[	Gallons Purged:	0.5
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C) Purge Goa	Cond. (uS/cm) ls: Stablizatio	D.O. (mg/L) on of Parame	pH ters for three	ORP (mV)	Turbidity (NTU) lings within the foll	DTW (ft) lowing limits	Internal Purge Volume (gal) >/= 1 flow	Comments/ Observations
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
855	18.47	814	0.27	5.91	-11.0	MED		<0.25	
858	19.35	829	0.25	5.93	-23.8		8.71		
901	19.95	836	0.22	6.05	-40.1			0.25	
								0.25	
904	19.94	836	0.21	6.05	-41.9				
907	20.20	834	0.21	6.03	-42.1		8.71		
910	20.28	836	0.22	6.03	-42.8			·	
SAMPLE CO									
Sample Collec	cted With:		Bailer			DED BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	,	Other							
Sample Descr	iption (color, 1	turbidity, odor,	sheen, etc.):	TURBID, BI	ROWNISH/GRAY	COLOR, STRONG	G ROTTEN OE	OOR/NS	
Replicate	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Ferrous iron	Comments/
Itophicate	(°F/°C)	(uS/cm)	(mg/L)	P	(mV)	(NTU)	(ft)	(Fe II)	Observations
1	20.29	836	0.22	6.03	-42.8				
2	20.29	836	0.22	6.03	-42.9				
3	20.29	836	0.22	6.03	-42.9				
4	20.29	836	0.22	6.03	-42.9				
						#DBV/01			
Average:	20.29	836	0.22	6.03	-42.9	#DIV/0!			
						plicable or write n	on-standard ar	_	
3				/ (	WTPH-Gx) (BT	<i>(</i>		WA L	OR 🗌
						8141) (Oil & Greas			OR 🗆
						(HCO3/CO3) (Cl	l) (SO4) (NO	3) (NO2) (F)	
					hl Nitrogen) (NH	(NU3/NU2)			
		le) (WAD Cy ) (As) (Sb) (			(Cr) $(Cu)$ $(Fe)$ $($	Pb) (Mg) (Mn) (N	i) (Ag) (Se) (	T (V) $(7n)$ (He	$\mathbf{v}$ ) (K) (Na)
									Na) (Hardness) (Silica
	VOC (Boein		, (==, (20) (0	, (24) (80)		, <u>, , , , , , , , , , , , , , , , , , </u>		//(**)(1	
		ane Ethene Ac	etylene			<u></u>			
	others								
Duplicate San	nle No(s).								

Comments:

Signature:

P:\8888 - Boeing Renton\02 Data Management\2018\3Q2018\field data\Landau Files\SWMU-168\_8.13.18\_JHA.xlsx



Project Nam	e:	Boeing Ren	iton		Project Number	•	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@ 8	46		
Sample Nun	nber:	RGW231S-	180813		Weather:	60'S, PARTLY S	SUINNY		
Landau Rep	resentative:	JHA			-				
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	8.7	Time:	-	Flow through cel	l vol.		GW Meter No.(s	SLOPE 2
Begin Purge:				End Purge:	-	8/13 /2018 @ 84	5	Gallons Purged:	
Purge water d			55-gal Drum	Ē.	Storage Tank	Ground		SITE TREATM	
U		Cond	D.O.		-				
Time	Temp (°F/°C)	Cond. (uS/cm)	(mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa	ls: Stablizatio	on of Parame			lings within the fo	llowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
827	19.88	579	2.77	6.09	51.2	LOW		<0.25	
830	19.60	725	2.22	6.09	16.0				
833	19.58	775	1.80	6.10	3.1				
836		811	1.29	6.12	-16.7				
839	19.57	827	1.12	6.14	-24.9				
842	19.57	837	1.03	6.16	-30.3			0.25	
844	19.63	845	0.84	6.19	-37.3				
SAMPLE CO	LLECTION I	DATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	el 🗌	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
Sample Descr	iption (color,	urbidity, odor	, sheen, etc.):	CLOUDY, C	COLORLESS, RO	TTEN ODOR/NS			
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1				( 10		(1110)	(11)	(PUII)	Obser various
1	19.63	845	0.82	6.19	-37.6				
2	19.63	845	0.82	6.19	-37.9				
3	19.63	845	0.82	6.19	-38.1				
4	19.63	845	0.81	6.19	-38.4				
Average:	19.63	845	0.82	6.19	-38.0	#DIV/0!			
OUANTITY	TVDICAL A	NAT VEIC AT		D DOTTI E	TVDE (Cinale on	plicable or write n	on standard as	alveis balaw)	
3					WTPH-Gx) (BTH		ion-stanuaru ai	WA 🗆	OR 🗆
						8141) (Oil & Grea	nse)	WA 🗆	OR 🗆
						(HCO3/CO3) (C			011
	, , , , , , , , , , , , , , , , , , ,	<b>2</b> / 1		<i>(</i> )	hl Nitrogen) (NH				
	(Total Cyanic	le) (WAD Cy	vanide) (Free	Cyanide)					
	(Total Metals	) (As) (Sb) (	Ba) (Be) (Ca	(Cd) (Co)	(Cr) (Cu) (Fe) (	Pb) (Mg) (Mn) (N	Ni) (Ag) (Se) (	$\Gamma l$ ) (V) (Zn) (Hg	g) (K) (Na)
	(Dissolved M	etals) (As) (St	b) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (Pb)	(Mg) (Mn) (Ni) (Mi)	Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (N	Na) (Hardness) (Silica
	VOC (Boein								
	Methane Eth	ane Ethene Ad	cetylene						
	-41								
1	othore								
•	others								

Duplicate Sample No(s):

Signature:

Comments: HAD TO TAKE PUMP OUT TO GET WATER LEVEL

JHA

Date: 8/13/2018



Event:	ie:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
L'ent.		Quarterly A	ugust 2018		Date/Time:	8/13 /2018@	913		
Sample Nun	nber:	RGW081S-	180813		Weather:	CLEAR			
Landau Rep	resentative:	CEB			-				
WATER LEV	/EL/WELL/PU	<b>URGE DATA</b>							
Well Condition	on:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	9.8	Time:	839	Flow through cel	l vol.		GW Meter No.(s	. 1
Begin Purge:	Date/Time:	8/ 13 /2018	841	End Purge:	Date/Time:	8/13 /2018 @	903	Gallons Purged:	0.25
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units	consecutive read +/- 10 mV	dings within the fo +/- 10%	< 0.3 ft	>/= 1 flow through cell	
844	19.1	127.4	2.05	6.37	59.3	LOW	9.83	0	
847	·	131.0	1.49	6.33	61.2		9.81		
850		125.5	1.13	6.35	61.3		9.80		
853	19.0	138.1	0.81	6.38	57.9				
856	19.2	132.4	0.66	6.39	55.9				
859	19.2	138.9	0.59	6.41	53.1				
901	19.2	133.1	0.58	6.41	52.9				
SAMPLE CC	LLECTION I	DATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Procee	lure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	,	Other				~			
Sample Desci	ription (color, t	urbidity, odor,	, sheen, etc.):	SLIGHT YE	LLOW COLOR,	CLEAR, ODOR, N	IS		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	19.2								0.0000000000000000000000000000000000000
		132.9	0.59	6.41	52.7				
2	19.2								
2	<u>19.2</u> 19.2	133.8	0.60	6.41	52.4				
3	19.2	<u>133.8</u> 137.8	0.60	6.41 6.41	52.4 52.1				
3 4	19.2 19.2	133.8 137.8 135.8	0.60 0.60 0.61	6.41 6.41 6.41	52.4 52.1 51.8	#DIV/01			
3 4 Average:	<u> </u>	<u>133.8</u> <u>137.8</u> <u>135.8</u> <u>135.1</u>	0.60 0.60 0.61 0.60	6.41 6.41 6.41 6.41	52.4 52.1 51.8 52.3	#DIV/0!			
3 4 Average: QUANTITY	19.2 19.2 19.2 <b>TYPICAL A</b>	133.8 137.8 135.8 135.1 NALYSIS AI	0.60 0.60 0.61 0.60	6.41 6.41 6.41 6.41 <b>CR BOTTLE</b>	52.4 52.1 51.8 52.3 TYPE (Circle ap	#DIV/0!			
3 4 Average:	19.2 19.2 19.2 <b>TYPICAL A</b> (8260-SIM)	133.8 137.8 135.8 135.1 NALYSIS AI (8010) (8020	0.60 0.60 0.61 0.60 LLOWED PE	6.41 6.41 6.41 6.41 CR BOTTLE G) (NWTPH	52.4 52.1 51.8 52.3 <b>TYPE (Circle ap</b> I-Gx) (BTEX)	oplicable or write		WA 🗆	OR
3 4 Average: QUANTITY	19.2 19.2 19.2 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA	133.8 137.8 135.8 135.1 NALYSIS AI (8010) (8020 AH) (NWTPH	0.60 0.60 0.61 0.60 LLOWED PH- D) (NWTPH- H-D) (NWTF	6.41 6.41 6.41 6.41 <b>CR BOTTLE</b> G) (NWTPP PH-Dx) (TPP	52.4 52.1 51.8 52.3 <b>TYPE (Circle ap</b> I-Gx) (BTEX) I-HCID) (8081)	(8141) (Oil & G	rease)	WA 🗆 WA 🗆	
3 4 Average: QUANTITY	19.2 19.2 19.2 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA (pH) (Condu	133.8 137.8 135.8 135.1 NALYSIS AI (8010) (8020 AH) (NWTPH Ictivity) (TDS	0.60 0.61 0.60 LLOWED PE )) (NWTPH- H-D) (NWTF S) (TSS) (B	6.41 6.41 6.41 6.41 CR BOTTLE G) (NWTPH CH-Dx) (TPH OD) (Turbic	52.4 52.1 51.8 52.3 <b>TYPE (Circle ap</b> I-Gx) (BTEX) I-HCID) (8081) Ity) (Alkalinity)	(8141) (Oil & G (HCO3/CO3) (0	rease)	WA 🗆 WA 🗆	OR
3 4 Average: QUANTITY 3	19.2 19.2 19.2 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOO	133.8 137.8 135.8 135.1 NALYSIS AI (8010) (8020 AH) (NWTPH Ictivity) (TDS	0.60 0.61 0.60 LOWED PE (NWTPH- H-D) (NWTP S) (TSS) (B tal PO4) (To	6.41 6.41 6.41 CR BOTTLE G) (NWTPH PH-Dx) (TPH OD) (Turbio tal Kiedahl N	52.4 52.1 51.8 52.3 <b>TYPE (Circle ap</b> I-Gx) (BTEX) I-HCID) (8081)	(8141) (Oil & G (HCO3/CO3) (0	rease)	WA 🗆 WA 🗆	OR
3 4 Average: QUANTITY 3	19.2 19.2 19.2 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	133.8           137.8           135.8           135.1           NALYSIS AI           (8010)           (8020)           AH)           (NWTPH           activity)           (TDS)           (25310C)           (To           (WAD Cy)	0.60 0.61 0.60 LOWED PF 0) (NWTPH- H-D) (NWTF S) (TSS) (B tal PO4) (To anide) (Free	6.41 6.41 6.41 CR BOTTLE G) (NWTPH PH-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide)	52.4 52.1 51.8 52.3 <b>TYPE (Circle ag</b> I-Gx) (BTEX) I-HCID) (8081) Ity) (Alkalinity) itrogen) (NH3)	(8141) (Oil & G (HCO3/CO3) (0	rease) Cl) (SO4) (NO	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR
3 4 Average: QUANTITY 3 1	19.2 19.2 19.2 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals)	133.8           137.8           135.8           135.1           NALYSIS AI           (8010) (8020)           AH) (NWTPH           activity) (TDS           C5310C) (To           le) (WAD Cy           ) (As) (Sb) (	0.60 0.61 0.60 LLOWED PH (NWTPH- H-D) (NWTP S) (TSS) (B tal PO4) (To anide) (Free Ba) (Be) (Ca	6.41 6.41 6.41 6.41 <b>CR BOTTLE</b> G) (NWTPF PH-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	52.4 52.1 51.8 52.3 <b>TYPE (Circle ap</b> I-Gx) (BTEX) I-HCID) (8081) Ity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe) (	(8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2) (Pb) (Mg) (Mn) (1	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR
3 4 Average: QUANTITY 3 1	19.2 19.2 19.2 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals)	133.8           137.8           135.8           135.1           NALYSIS AI           (8010)         (8020)           AH)         (NWTPH           ictivity)         (TDS)           C5310C)         (To           e)         (WAD Cy)           )         (As)           (Sb)         (	0.60 0.61 0.60 LLOWED PH (NWTPH- H-D) (NWTP S) (TSS) (B tal PO4) (To anide) (Free Ba) (Be) (Ca	6.41 6.41 6.41 6.41 <b>CR BOTTLE</b> G) (NWTPF PH-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	52.4 52.1 51.8 52.3 <b>TYPE (Circle ap</b> I-Gx) (BTEX) I-HCID) (8081) Ity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe) (	(8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2) (Pb) (Mg) (Mn) (1	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR OR OR (K) (Na)
3 4 Average: QUANTITY 3 1	19.2 19.2 19.2 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	133.8           137.8           135.8           135.1           NALYSIS AI           (8010)         (8020)           AH)         (NWTPH           ictivity)         (TDS)           C5310C)         (To           e)         (WAD Cy)           )         (As)           (Sb)         (	0.60 0.61 0.60 LLOWED PE 0) (NWTPH- H-D) (NWTP S) (TSS) (B tal PO4) (To anide) (Free Ba) (Be) (Ca 0) (Ba) (Be) (Ca	6.41 6.41 6.41 6.41 <b>CR BOTTLE</b> G) (NWTPF PH-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	52.4 52.1 51.8 52.3 <b>TYPE (Circle ap</b> I-Gx) (BTEX) I-HCID) (8081) Ity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe) (	(8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2) (Pb) (Mg) (Mn) (1	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR OR OR (K) (Na)
3 4 Average: QUANTITY 3 1	19.2 19.2 19.2 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	133.8           137.8           135.8           135.1           NALYSIS AI           (8010)           (8020)           AH)           (NWTPH           activity)           (TDS)           C5310C)           (As)           (As)           (Sb)           g short list)	0.60 0.61 0.60 LLOWED PE 0) (NWTPH- H-D) (NWTP S) (TSS) (B tal PO4) (To anide) (Free Ba) (Be) (Ca 0) (Ba) (Be) (Ca	6.41 6.41 6.41 6.41 <b>CR BOTTLE</b> G) (NWTPF PH-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	52.4 52.1 51.8 52.3 <b>TYPE (Circle ap</b> I-Gx) (BTEX) I-HCID) (8081) Ity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe) (	(8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2) (Pb) (Mg) (Mn) (1	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR OR OR (K) (Na)
3 4 Average: QUANTITY 3 1	19.2 19.2 19.2 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	133.8           137.8           135.8           135.1           NALYSIS AI           (8010)           (8020)           AH)           (NWTPH           activity)           (TDS)           C5310C)           (As)           (As)           (Sb)           g short list)	0.60 0.61 0.60 LLOWED PE 0) (NWTPH- H-D) (NWTP S) (TSS) (B tal PO4) (To anide) (Free Ba) (Be) (Ca 0) (Ba) (Be) (Ca	6.41 6.41 6.41 6.41 <b>CR BOTTLE</b> G) (NWTPF PH-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	52.4 52.1 51.8 52.3 <b>TYPE (Circle ap</b> I-Gx) (BTEX) I-HCID) (8081) Ity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe) (	(8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2) (Pb) (Mg) (Mn) (1	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR OR OR (K) (Na)

Duplicate Sample No(s):

Comments:



_	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A			Date/Time:	8/ 13 /2018@	855		
Sample Num	nber:	RGW152S-	180813		Weather:	70s clear			
Landau Repr	resentative:	SRB							
WATER LEV	'EL/WELL/PU	<b>IRGE DATA</b>							
Well Condition	on:	Secure (YES)	)	Damaged (N	O)	Describe:			
DTW Before I	Purging (ft)	9.9	Time:	815	Flow through cel	l vol.		GW Meter No.(s	heron2
Begin Purge:	Date/Time:	8/ 13 /2018	825	End Purge:	Date/Time:	8/ 13 /2018 @	848	Gallons Purged:	0.25
Purge water di	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	- 	(mV)	(NTU)	(ft)	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units		dings within the fo +/- 10%	< 0.3  ft	through cell	
828	19.5	2610.0	1.06	4.46	55.5	MED	10.59	0	
831	19.3	3054.0	0.64	4.44	43.1		10.80		
834	19.3	3066.0	0.59	4.44	42.3		10.85		
837	19.3	3080.0	0.51	4.44	39.8		10.90		
840	19.4	3105.0	0.44	4.44	36.3		10.90		
843	19.5	3117.0	0.42	4.44	35.5		10.90		
846	19.6	3149.0	0.36	4.45	31.6				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	ded bladder			
Made of:		Stainless Stee		PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	lure:	Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	,	Other							
Sample Descri	iption (color, t	urbidity, odor,	sheen, etc.):	GRAY AND	TURBID STRO	NG ODOR NO SHI	EEN		
Replicate									
	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1				<b>рН</b> 4.45		•			
1 2	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)	•	( <b>mV</b> )	•			
	(° <b>F/</b> °Ĉ) 19.6	( <b>uS/cm</b> ) 3149.0	( <b>mg/L</b> ) 0.36	4.45	( <b>mV</b> ) 31.4	•			
2	(° <b>F/°Ĉ</b> ) <u>19.6</u> 19.6	(uS/cm) 3149.0 3148.0	( <b>mg/L</b> ) 0.36 0.35	4.45	(mV) 31.4 30.8	•			
2 3	(° <b>F/°Ĉ</b> ) <u>19.6</u> <u>19.6</u> <u>19.6</u>	(uS/cm) 3149.0 3148.0 3148.0	(mg/L) 0.36 0.35 0.35	4.45 4.45 4.45 4.45	(mV) 31.4 30.8 30.4	•			
2 3 4 Average:	(°F/°Ĉ) <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u>	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3	(mg/L) 0.36 0.35 0.35 0.35 0.35	4.45 4.45 4.45 4.45 4.45 4.45	(mV) 31.4 30.8 30.4 30.0 30.7	(NTU)	(ft)	(Fe II)	
2 3 4 Average: QUANTITY	(°F/°Ĉ) <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <b>TYPICAL A</b>	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3	(mg/L) 0.36 0.35 0.35 0.35 0.35 LOWED PE	4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b>	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap	(NTU) #DIV/0!	(ft)	(Fe II)	
2 3 4 Average: QUANTITY 3	(°F/°Ĉ) <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <b>TYPICAL A</b> (8260-SIM)	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AI (8010) (8020)	(mg/L) 0.36 0.35 0.35 0.35 0.35 LOWED PE ) (NWTPH-0	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap (-Gx) (BTEX)	(NTU) #DIV/0!	(ft)	(Fe II)	Observations
2 3 4 Average: QUANTITY 3	(°F/°Ĉ) <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u>	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS	(mg/L) 0.36 0.35 0.35 0.35 0.35 LOWED PE ) (NWTPH-6 (-D) (NWTP -D) (NWTP	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity)	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (C	(ft)	(Fe II)	Observations
2 3 4 Average: QUANTITY 3	(°F/°Ĉ) <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u>	(uS/cm) <u>3149.0</u> <u>3148.0</u> <u>3148.0</u> <u>3148.0</u> <u>3148.3</u> NALYSIS AI (8010) (8020 AH) (NWTPH ictivity) (TDS C5310C) (Tot	(mg/L) 0.36 0.35	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni	(mV) <u>31.4</u> <u>30.8</u> <u>30.4</u> <u>30.0</u> <u>30.7</u> TYPE (Circle ap I-GX) (BTEX) I-HCID) (8081)	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (C	(ft)	(Fe II)	Observations
2 3 4 Average: QUANTITY 3 1	(°F/°Ĉ) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) (10.6) (10	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AI (8010) (8020 AH) (NWTPH ctivity) (TDS C5310C) (Tot e) (WAD Cyster)	(mg/L) 0.36 0.35 0.35 0.35 0.35 0.35 LOWED PE ) (NWTPH-0 (NWTPH-0 ) (NWTPH-0 ) (TSS) (Be al PO4) (Tot anide) (Free b	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni Cyanide)	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity) trogen) (NH3)	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (CI (NO3/NO2)	(ft) on-standard an ease) (SO4) (NO3	(Fe II)	Observations Observations OR
2 3 4 Average: QUANTITY 3 1	(°F/°Ĉ) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (19.6) 19.6 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) (10.6) (10	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AI (8010) (8020 AH) (NWTPH activity) (TDS C5310C) (Tot e) (WAD Cya b) (As) (Sb) (I	(mg/L) 0.36 0.35 0.35 0.35 0.35 1.0WED PE 0.0WTPH-0 0.0WTPH-0 0.0WTPH-0 0.0WTPH-0 0.0WTPH-0 0.00TPS 0.00TP 0.00T	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) 0 (Cd) (Co)	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap (-Gx) (BTEX) (-Gx) (BTEX) (-Gx) (BTEX) (-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
2 3 4 Average: QUANTITY 3 1	(°F/°Ĉ) 19.6 19.6 19.6 19.6 19.6 19.6 (19.6 19.6 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) (10.6) (1	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020) AH) (NWTPH ictivity) (TDS C5310C) (Tot e) (WAD Cyston) (As) (Sb) (Iletals) (As) (Sb)	(mg/L) 0.36 0.35 0.35 0.35 0.35 1.0WED PE 0.0WTPH-0 0.0WTPH-0 0.0WTPH-0 0.0WTPH-0 0.0WTPH-0 0.00TPS 0.00TP 0.00T	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) 0 (Cd) (Co)	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap (-Gx) (BTEX) (-Gx) (BTEX) (-Gx) (BTEX) (-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations Observations OR
2 3 4 Average: QUANTITY 3 1	(°F/°Ĉ) <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> (9.6) <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>19.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.6</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u> <u>10.5</u>	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020) AH) (NWTPH ictivity) (TDS C5310C) (Tot e) (WAD Cyston) (As) (Sb) (Iletals) (As) (Sb)	(mg/L) 0.36 0.35 0.35 0.35 0.35 1.0WED PE (NWTPH-0 (N)) (NWTPH-0 (N)) (NWTPH-0 (N)) (N) (N) (N)) (N) (N) (N) (N)) (N) (N) (N) (N)) (N) (N	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) 0 (Cd) (Co)	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap (-Gx) (BTEX) (-Gx) (BTEX) (-Gx) (BTEX) (-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
2 3 4 Average: QUANTITY 3 1	(°F/°Ĉ) 19.6 19.6 19.6 19.6 19.6 19.6 (9.6) 19.6 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) (10.6)	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AI (8010) (8020) AI) (NWTPH (8010) (8020) (H) (NWTPH (ctivity) (TDS C5310C) (Tot e) (WAD Cya ) (As) (Sb) (I etals) (As) (Sb) g short list)	(mg/L) 0.36 0.35 0.35 0.35 0.35 1.0WED PE (NWTPH-0 (N)) (NWTPH-0 (N)) (NWTPH-0 (N)) (N) (N) (N)) (N) (N) (N) (N)) (N) (N) (N) (N)) (N) (N	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) 0 (Cd) (Co)	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap (-Gx) (BTEX) (-Gx) (BTEX) (-Gx) (BTEX) (-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
2 3 4 Average: QUANTITY 3 1	(°F/°Ĉ) 19.6 19.6 19.6 19.6 19.6 19.6 (9.6) 19.6 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) (10.6)	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AI (8010) (8020) AI) (NWTPH (8010) (8020) (H) (NWTPH (ctivity) (TDS C5310C) (Tot e) (WAD Cya ) (As) (Sb) (I etals) (As) (Sb) g short list)	(mg/L) 0.36 0.35 0.35 0.35 0.35 1.0WED PE (NWTPH-0 (N)) (NWTPH-0 (N)) (NWTPH-0 (N)) (N) (N) (N)) (N) (N) (N) (N)) (N) (N) (N) (N)) (N) (N	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) 0 (Cd) (Co)	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap (-Gx) (BTEX) (-Gx) (BTEX) (-Gx) (BTEX) (-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
2 3 4 Average: QUANTITY 3 1 1 1	(°F/°Ĉ) 19.6 19.6 19.6 19.6 19.6 19.6 (9.6) 19.6 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) (10.6)	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AI (8010) (8020) AI) (NWTPH (8010) (8020) (H) (NWTPH (ctivity) (TDS C5310C) (Tot e) (WAD Cya ) (As) (Sb) (I etals) (As) (Sb) g short list)	(mg/L) 0.36 0.35 0.35 0.35 0.35 1.0WED PE (NWTPH-0 (N)) (NWTPH-0 (N)) (NWTPH-0 (N)) (N) (N) (N)) (N) (N) (N) (N)) (N) (N) (N) (N)) (N) (N	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) 0 (Cd) (Co)	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap (-Gx) (BTEX) (-Gx) (BTEX) (-Gx) (BTEX) (-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
2 3 4 Average: QUANTITY 3 1 1 1	(°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 (19.6) 19.6 19.6 (19.6) (10.6) (10.6	(uS/cm) <u>3149.0</u> <u>3148.0</u> <u>3148.0</u> <u>3148.0</u> <u>3148.3</u> NALYSIS AI (8010) (8020 AH) (NWTPH (8010) (8020 AH) (NWTPH (0) (8020) (TDS (5310C) (Tot e) (WAD Cyr) (As) (Sb) (I etals) (As) (Sb) g short list) ane Ethene Ac	(mg/L) 0.36 0.35 0.35 0.35 0.35 0.35 100WED PE (NWTPH-6 (	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) 0 (Cd) (Co)	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap (-Gx) (BTEX) (-Gx) (BTEX) (-Gx) (BTEX) (-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
2 3 4 Average: QUANTITY 3 1 1 1	(°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (0.00) (PA (8260-SIM) (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals) (D	(uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AI (8010) (8020) AI) (NWTPH (8010) (8020) (H) (NWTPH (ctivity) (TDS C5310C) (Tot e) (WAD Cya ) (As) (Sb) (I etals) (As) (Sb) g short list)	(mg/L) 0.36 0.35 0.35 0.35 0.35 LOWED PE ) (NWTPH-0 (NWTPH-0 ) (NWTPH-0 ) (TSS) (B0 al PO4) (Tot anide) (Free 0 Ba) (Be) (Ca b) (Ba) (Be) (Ca cation (DUP1	4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) 0 (Cd) (Co)	(mV) 31.4 30.8 30.4 30.0 30.7 TYPE (Circle ap (-Gx) (BTEX) (-Gx) (BTEX) (-Gx) (BTEX) (-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations



Project Nam	e:	Boeing Rent	ton		Project Number	:	0025217.099.0	99	
Event:		Quarterly A			Date/Time:	8/ 13 /2018@			
Sample Num	nber:	RGWDUP1	v		Weather:	70s clear			
Landau Repr	resentative:	SRB			-				
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio		Secure (YES)	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	. ,	Time:	-	Flow through cel	l vol.		GW Meter No.(s	heron2
		8/ 13 /2018		End Purge:		8/ 13 /2018 @		Gallons Purged:	·
Purge water d			55-gal Drum	<u> </u>	Storage Tank	Ground	Other	SITE TREATM	
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time			on of Paramet	ters for three		lings within the fo		>/= 1 flow	Obser various
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
		БТИ							
	·	DUI	PLICA	АТЕ Т	TO RGV	V152S			
	·								
	·								
SAMPLE CO	LLECTION D	DATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	ded bladder			
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	lure:	Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)								
	i oracr)	Other							
Sample Descr	<i>,</i>		sheen, etc.):	GRAY AND	TURBID STROM	NG ODOR NO SHI	EEN		
	iption (color, t	turbidity, odor,						Equation in a	Commental
Sample Descr Replicate	iption (color, t	Cond.	D.O.	GRAY AND	ORP	Turbidity	DTW	Ferrous iron (Fe II)	Comments/ Observations
Replicate	iption (color, t Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)			Ferrous iron (Fe II)	Comments/ Observations
Replicate	iption (color, t Temp (°F/°C) 19.6	Cond. (uS/cm) 3149.0	D.O. (mg/L) 0.35	<b>рН</b> 4.45	ORP (mV) 31.0	Turbidity	DTW		
Replicate	iption (color, t Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity	DTW		
Replicate	iption (color, t Temp (°F/°C) 19.6	Cond. (uS/cm) 3149.0	D.O. (mg/L) 0.35	<b>рН</b> 4.45	ORP (mV) 31.0	Turbidity	DTW		
Replicate 1 2	iption (color, t Temp (°F/°C) 19.6 19.6	Cond. (uS/cm) 3149.0 3148.0	D.O. (mg/L) 0.35 0.35	рН 4.45 4.45	ORP (mV) 31.0 30.6	Turbidity	DTW		
Replicate 1 2 3	iption (color, t <b>Temp</b> (°F/°C) <u>19.6</u> <u>19.6</u> <u>19.6</u>	Cond. (uS/cm) 3149.0 3148.0 3148.0	D.O. (mg/L) 0.35 0.35 0.35	<b>pH</b> 4.45 4.45 4.45	ORP (mV) 31.0 30.6 30.2	Turbidity	DTW		
Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35	<b>pH</b> 4.45 4.45 4.45 4.45 4.45 4.45	ORP (mV) 31.0 30.6 30.2 29.7 30.4	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 <b>TYPICAL A</b>	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b>	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 <b>TYPICAL A</b> (8260-SIM)	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 LOWED PE ) (NWTPH-0	<b>pH</b> 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap (-Gx) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (8260-SIM) (8270D) (P.4)	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 LOWED PE ) (NWTPH-0	pH 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write n	DTW (ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 MH) (NWTPH activity) (TDS	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 LOWED PE ) (NWTPH-0 (-D) (NWTPH-0 ) (TSS) (BC	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (C)	DTW (ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (19.6) 19.6 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) (10.6) (10	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 MH) (NWTPH activity) (TDS	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081) lity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (C)	DTW (ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (9.6) 19.6 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) (10.6) (	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS C5310C) (Tot le) (WAD Cya ) (As) (Sb) (E	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 0.35 1.LOWED PE 0.(NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 2-D) (TSS) (BC 2-D) (TSS) (BC 2-D) (TSS) (BC 2-D) (TSS) (BC 2-D) (TSS) (BC) (Ca) 2-D) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) Iity) (Alkalinity) Itrogen) (NH3) ( (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (C)           NO3/NO2)           Pb) (Mg) (Mn) (N	DTW (ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (9.6) 19.6 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) (7.6)	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS C5310C) (Tot le) (WAD Cya ) (As) (Sb) (F etals) (As) (Sb)	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 0.35 1.LOWED PE 0.(NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 1-D) (NWTPH-C 2-D) (TSS) (BC 2-D) (TSS) (BC 2-D) (TSS) (BC 2-D) (TSS) (BC 2-D) (TSS) (BC) (Ca) 2-D) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) Iity) (Alkalinity) Itrogen) (NH3) ( (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (C)           NO3/NO2)           Pb) (Mg) (Mn) (N	DTW (ft) 	(Fe II)	Observations Observations OR
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (19.6) 19.6 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) (10.6) (	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS C5310C) (Tot e) (WAD Cya b) (As) (Sb) (Fe etals) (As) (Sb)	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 0.35 (NWTPH-0 (NWTPH-0)(	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) Iity) (Alkalinity) Itrogen) (NH3) ( (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (C)           NO3/NO2)           Pb) (Mg) (Mn) (N	DTW (ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (19.6) 19.6 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) (10.6) (	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS C5310C) (Tot le) (WAD Cya ) (As) (Sb) (F etals) (As) (Sb)	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 0.35 (NWTPH-0 (NWTPH-0)(	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) Iity) (Alkalinity) Itrogen) (NH3) ( (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (C)           NO3/NO2)           Pb) (Mg) (Mn) (N	DTW (ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (19.6) 19.6 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) (10.6) (	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS C5310C) (Tot e) (WAD Cya b) (As) (Sb) (Fe etals) (As) (Sb)	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 0.35 (NWTPH-0 (NWTPH-0)(	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) Iity) (Alkalinity) Itrogen) (NH3) ( (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (C)           NO3/NO2)           Pb) (Mg) (Mn) (N	DTW (ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (9.6) 19.6 19.6 (9.6) 19.6 (9.6) 19.6 (9.6) (10.6) (	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS C5310C) (Tot e) (WAD Cya b) (As) (Sb) (Fe etals) (As) (Sb)	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 0.35 (NWTPH-0 (NWTPH-0)(	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) Iity) (Alkalinity) Itrogen) (NH3) ( (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (C)           NO3/NO2)           Pb) (Mg) (Mn) (N	DTW (ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	iption (color, t Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (19.6) 19.6 19.6 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) 19.6 (19.6) (10.6) (10	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS C5310C) (Tot e) (WAD Cya b) (As) (Sb) (Fe etals) (As) (Sb)	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 0.35 (NWTPH-0 (NWTPH-0)(	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) Iity) (Alkalinity) Itrogen) (NH3) ( (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (C)           NO3/NO2)           Pb) (Mg) (Mn) (N	DTW (ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (9.1) (8270D) (PA (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS C5310C) (Tot e) (WAD Cya b) (As) (Sb) (Fe etals) (As) (Sb)	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) Iity) (Alkalinity) Itrogen) (NH3) ( (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (C)           NO3/NO2)           Pb) (Mg) (Mn) (N	DTW (ft) 	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (9.1) (8270D) (PA (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH (8010) (8020 AH) (NWTPH (8010) (8020 AH) (NWTPH (100) (8020 AH) (100) (8020 AH)	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) Iity) (Alkalinity) Itrogen) (NH3) ( (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (C)           NO3/NO2)           Pb) (Mg) (Mn) (N	DTW (ft) 	(Fe II)	Observations
Replicate  1 2 3 4 Average:  QUANTITY 3 1 1 1 1 Duplicate San	Temp (°F/°C) 19.6 19.6 19.6 19.6 19.6 19.6 19.6 (9.1) (8270D) (PA (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 3149.0 3148.0 3148.0 3148.0 3148.0 3148.3 NALYSIS AL (8010) (8020 AH) (NWTPH (8010) (8020 AH) (NWTPH (8010) (8020 AH) (NWTPH (100) (8020 AH) (100) (8020 AH)	D.O. (mg/L) 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	pH 4.45 4.45 4.45 4.45 4.45 4.45 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 31.0 30.6 30.2 29.7 30.4 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) Iity) (Alkalinity) Itrogen) (NH3) ( (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (C)           NO3/NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations



Project Nam	e <u>:</u>	Boeing Ren	iton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/13/18 @ 1033			
Sample Num	iber:	RGW153S-	180813		Weather:	CLEAR			
Landau Repr	resentative:	CEB			_				
WATER LEV	EL/WELL/PU	<b>URGE DATA</b>							
Well Conditio	n:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	11.05	Time:	1004	Flow through cel	l vol.		GW Meter No.(s	s 1
Begin Purge:	Date/Time:	8/13 /2018	1005	End Purge:	Date/Time:	8/13 /2018 @	1027	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /° <b>Ĉ</b> )	(uS/cm)	(mg/L)	-	(mV)	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
						lings within the fo		>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
1008	18.9	1854	1.31	4.82	32	LOW	11.39		
1011	19.3	2145	0.54	4.74	21.5		11.33		
1014	19.5	2214	0.46	4.73	17		11.33		
1017	19.6	2232	0.39	4.74	9.5				
1020	19.5	2213	0.4	4.75					
1023	19.5	2135	0.44						
1025	19.6	2079	0.44	4.77	-1.3				
SAMPLE CO			וי ת						
Sample Collec	_		Bailer		Pump/Pump Type				
Made of:		Stainless Ste		PVC		Polyethylene	Other	Dedicated	
Decon Proced		Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	,	Other	1 ( )			IC ODOD NG			
Sample Descr	iption (color, i	urbialty, odor	, sheen, etc.):	CLEAR CU	LORLESS STRO	NG ODOK NS			
Replicate	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	<b>Ferrous iron</b>	Comments/
	(° <b>F</b> /°Ē)	(uS/cm)	( <b>mg/L</b> )		( <b>mV</b> )	(NTU)	( <b>ft</b> )	(Fe II)	Observations
1	19.6	2065	0.46	4.78	-1.7				
2	19.6	2051	0.47	4.78	-2.2				
3	19.7	2037	0.48	4.78	-2.8				
4	19.7	2022	0.48	4.79	-3.2				
	19.7	2044	0.47	4.78		#DIV/01			
Average:					-2.5	#DIV/0!			
						plicable or write n	ion-standard ai		
3		(8010) (8020				(0141) (01.0.0		WA 🗆	
						(8141) (Oil & Gr (HCO3/CO3) (C		WA $\square$	OR 🗆
1	M / /	2/ )		~ ``	itrogen) (NH3)	(	<u>,1) (304) (NU</u>	(102) (F)	
		le) (WAD Cy			inogen) (1113)	(1103/1102)			
1					(Cr) (Cu) (Fe) (	Pb) (Mg) (Mn) (N	Ni) (Ag) (Se) (	T1) (V) (Zn) (H	g) (K) (Na)
									Na) (Hardness) (Silica
	VOC (Boein								
	Methane Eth	ane Ethene A	cetylene						
	others								

Duplicate Sample No(s):

Comments:



Project Nam	ie:	Boeing Ren	iton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/13 /2018@	833		
Sample Nun	nber:	RGW172S-	-		Weather:	HAZY			
Landau Rep	resentative:	CEB							
WATER LEV	/EL/WELL/PI	URGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	10.53	Time:	756	Flow through ce	l vol.		GW Meter No.(s	. 1
		8/13 /2018	757	End Purge:	-	8/13 /2018 @	819	Gallons Purged:	0.25
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa +/- 3%	lls: Stablizatio +/- 3%	on of Parame +/- 10%	ters for three +/- 0.1 units		dings within the fo +/- 10%	ollowing limits < 0.3 ft	>/= 1 flow through cell	
800						+/- 10 /0		thi ough cen	
800		264.1	0.93	6.57	67.7		10.88		
803	18.5	267.4	0.43	6.53	66.7		10.91		
806	18.6	266.6	0.42	6.53	63.5		10.92		
809	18.6	266.1	0.36	6.51	60.7		·		
812	18.6	288.7	0.39	6.43	55.9				
815	18.6	326.4	0.40	6.34	52.1				
	·								
	·						·		
SAMPLE CO	LLECTION I						·		
Sample Colle			Bailer	딦	Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	]	Dedicated	
Decon Proced	lure:	Alconox Wa	_	Tap Rinse	DI Water	Dedicated		<b>7</b> 7	
(By Numerica	ıl Order)	Other		1	4	<b>*</b>			
		-	, sheen, etc.):	COLORLES	S, SOME BLAC	K PARTICULATE	S, ODOR, NS		
		-							
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	18.7	343.2	0.37	6.30	50.7				
2	18.7	350.8	0.36	6.28	50.3				
3	18.7	358.8	0.37	6.27	49.6				
4	18.8	364.5	0.37	6.25	48.6				
Average:	18.7	354.3	0.37	6.28	49.8	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LLOWED PF	ER BOTTLE	TYPE (Circle a)	plicable or write	non-standard ai	nalvsis below)	
3		(8010) (8020						WA 🗆	OR 🗌
	(8270D) (PA	AH) (NWTPH	H-D) (NWTH	PH-Dx) (TPH	H-HCID) (8081)	(8141) (Oil & G	rease)	WA 🗆	OR 🗆
	(pH) (Condu	uctivity) (TDS	S) (TSS) (B	BOD) (Turbio	dity) (Alkalinity)	(HCO3/CO3) (0	Cl) (SO4) (NO	3) (NO2) (F)	
1	(COD) (TO	C5310C) (To	tal PO4) (To	tal Kiedahl N	itrogen) (NH3)	(NO3/NO2)			
	1	le) (WAD Cy							
1						Pb) (Mg) (Mn) (			
			b) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P)	o) (Mg) (Mn) (Ni) (	(Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (N)	Na) (Hardness) (Silica
	VOC (Boein Mothona Eth		aatulana						
	wiemane Etr	nane Ethene Ad	cetylene						
	others								

Duplicate Sample No(s):

Comments:



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@	951		
Sample Nun	nber:	RGW173S-	180813		Weather:	HAZY			
Landau Repr	resentative:	CEB			-				
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	10.73	Time:	920	Flow through cel	l vol.		GW Meter No.(s	. 1
Begin Purge:	Date/Time:	8/13 /2018	921	End Purge:	Date/Time:	8/13 /2018 @	944	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU) dings within the fo	DTW (ft)	Internal Purge Volume (gal) >/= 1 flow	Comments/ Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units		+/- 10%	< 0.3  ft	through cell	
924	18.8	427.2	0.30	6.35	74.4	LOW	10.82		
927	19.1	509.0	0.29	6.39	64.6		10.82		
930		591.0	0.30	6.40	54.4		10.81		
							10.81		
933		658.0	0.35	6.36	50.3				
936	19.2	749.0	0.34	6.31	46.3				
939	19.4	833.0	0.33	6.25	43.2			·	
942	19.4	846.0	0.34	6.25	42.7				
SAMPLE CO									
Sample Collec			Bailer			DED BLADDER		_	
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	<i>,</i>	Other							
Sample Descr	ription (color, t	urbidity, odor	, sheen, etc.):	CLEAR, SL	IGHT YELLOW	COLOR, ODOR, N	IS		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	19.4	859.0	0.35	6.24	42.2				
2	19.4	869.0	0.35	6.23	41.8				
3	19.4	876.0	0.36	6.22	41.6				
4	19.4	884.0	0.35	6.22	41.3				
Average:	19.4	872.0	0.35	6.23	41.7	#DIV/0!			
	-								
	(8260-SIM)					plicable or write	non-standard ar	WA	OR 🗆
						(8141) (Oil & G	rease)	WA 🗆	OR 🗆
						(HCO3/CO3) (0			
1		2/ 1	· · · · ·		itrogen) (NH3)				
	(Total Cyanid	e) (WAD Cy	anide) (Free	Cyanide)					
1	(Total Metals	) ( <mark>As</mark> ) (Sb) (	Ba) (Be) (Ca	) (Cd) (Co)	(Cr) (Cu) (Fe) (	<b>Pb</b> ) (Mg) (Mn) (1	Ni) (Ag) (Se) (	Tl) (V) (Zn) (Hg	g) (K) (Na)
		-+-1-) ( A -) (01	) (Ba) (Be) ( <b>(</b>	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (Pl	o) (Mg) (Mn) (Ni) (	(Ag) (Se) (Tl) (V	) (Zn) (Hg) (K) (N	Na) (Hardness) (Silica
			<i>()</i> ( <i>Du</i> ) ( <i>Dv</i> ) ( <i>c</i>						
	VOC (Boein	g short list)							
	VOC (Boein								
	VOC (Boein	g short list)							
	VOC (Boein	g short list)							

Duplicate Sample No(s):

Comments:



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@	1000		
Sample Nurr	nber:	RGW226S-	180813		Weather:	70s clear			
Landau Repr	resentative:	SRB							
WATER LEV	EL/WELL/PU	<b>IRGE DATA</b>							
Well Conditio		Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	8.82	Time:	850	Flow through cel	l vol.		GW Meter No.(s	heron2
Begin Purge:	Date/Time:	8/ 13 /2018	930	End Purge:	Date/Time:	8/ 13 /2018 @	955	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	tong for these	(mV)	(NTU) dings within the fo	(ft)	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3  ft	through cell	
933	20.5	318.4	2.21	5.93	11.1	MED	10.34		
936	20.8	330.2	1.74	6.11	-4.7		10.35		
939	20.9	331.7	1.59	6.18	-11.5		10.35		
942	20.9	332.4	1.43	6.22	-16.3		10.35		
945	21.1	330.0	1.36	6.24	-19.9				
948	21.2	324.5	1.32	6.26	-23.2				
951	21.3	323.7	1.32	6.27	-23.7				
SAMPLE CO	LLECTION E	_							
Sample Collec	cted With:		Bailer		Pump/Pump Type	ded bladder			
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
Sample Descr	iption (color, t	urbidity, odor,	sheen, etc.):	GRAY SLIC	HTLY TURBID	SLIGHT ODOR NO	) SHEEN		
Replicate	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	(°F/°C)	(uS/cm)	(mg/L)	рп	(mV)	(NTU)	(ft)	(Fe II)	Observations
1	21.3	322.4	1.29	6.27	-23.8				
2	21.3	321.7	1.28	6.27	-24.2				
3	21.3	321.1	1.26	6.27	-24.7				
4	21.3	318.9	1.23	6.27	-25.1				
Average:	21.3	321.0	1.27	6.27	-24.5	#DIV/0!			
	TVPICAL A	NAT VSIS AT	I OWED PE	P BOTTI F	TVPF (Circle on	plicable or write n	on-standard an	alveic balow)	
3					ITTE (Circle ap I-Gx) (BTEX)	plicable of write h	ion-stanuaru an	WA	OR 🗆
		· · · · ·	<i>(</i> )			(8141) (Oil & Gr	ease)	WA 🗆	OR 🗆
						(HCO3/CO3) (C			
1					itrogen) (NH3)				
	(Total Cyanid	e) (WAD Cy	anide) (Free	Cyanide)					
1	(Total Metals	) ( <mark>As</mark> ) (Sb) (1	Ba) (Be) (Ca)	) (Cd) (Co)	(Cr) (Cu) (Fe) (I	Pb) (Mg) (Mn) (N	i) (Ag) (Se) (T	l) (V) (Zn) (Hg)	(K) (Na)
	(Dissolved M	etals) (As) (Sb	) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (Pb	) (Mg) (Mn) (Ni) (A	Ag) (Se) (Tl) (V)	(Zn) (Hg) (K) (Na	a) (Hardness) (Silica)
	VOC (Boein	g short list)							
	Methane Eth	ane Ethene Ac	etylene						
	others								
Duplicate San									
Comments:	nple No(s):	TIAL DRAWI							

Signature: SRB

Date: 8/13/2018



Project Nam	ie:	Boeing Rer	nton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@ 7	'16		
Sample Nun	nber:	RGW232S-	-		Weather:	60'S, PARLTY S	UNNY		
Landau Rep	resentative:	JHA							
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES		Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	9.07	Time:	653	Flow through ce	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:	Date/Time:	8/ 13 /2018	@ 655	End Purge:	Date/Time:	8/ 13 /2018 @ 705	5	Gallons Purged:	<0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /° <b>C</b> )	(uS/cm)	(mg/L)	-	( <b>mV</b> )	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive rea +/- 10 mV	dings within the foll	lowing limits < 0.3 ft	>/= 1 flow	
						+/- 10%		through cell	ALLOWEDI
658	19.4	512	1.4			LOW	9.33	<0.25	SETTING
701	19.2	515	1.4	6.1	-19.4		9.38		
704	19.1	515	1.3	6.1	-23.2				
	·								
			·			·			
	LLECTION E		D - 11 - 1		D				
Sample Colle		لیا Stainless Ste	Bailer	PVC		DED BLADDER	Other	Defined	
Made of:	. H			PVC	Teflon	Polyethylene		Dedicated	
Decon Proced			. 6	<b>m b</b>					
		Alconox Wa	sh	Tap Rinse	DI Water	Dedicated			
(By Numerica	ul Order)	Other		-					
(By Numerica	ul Order)	Other		-	DI Water				
(By Numerica	il Order) iption (color, t Temp	Other curbidity, odor		-		COLOR, NO/NS	DTW	Ferrous iron	Comments/
(By Numerical Sample Descr	<i>el Order)</i>	Other Other Other	, sheen, etc.):	CLOUDY, L	LIGHT BROWN	COLOR, NO/NS	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
(By Numerical Sample Descr	il Order) iption (color, t Temp	Other curbidity, odor	, sheen, etc.): D.O.	CLOUDY, L	LIGHT BROWN	COLOR, NO/NS			
(By Numerical Sample Descr Replicate	tl Order) tiption (color, t Temp (°F/°C)	Cond. (uS/cm)	, sheen, etc.): D.O. (mg/L)	CLOUDY, I	LIGHT BROWN ( ORP (mV)	COLOR, NO/NS			
(By Numerical Sample Descr Replicate	tl Order) iption (color, t Temp (°F/°C) 19.1 19.1	Cond. (uS/cm) 516 516	D.O. (mg/L) 1.3	CLOUDY, I pH 6.1 6.1	ORP (mV) -23.4 -23.9	COLOR, NO/NS			
(By Numerical Sample Descr Replicate	tl Order) iption (color, t (°F/°C) <u>19.1</u> <u>19.1</u>	Cond. (uS/cm) 516 517	D.O. (mg/L) 1.3 1.3 1.3	CLOUDY, I pH 6.1 6.1	ORP (mV) -23.4 -23.9 -23.9	COLOR, NO/NS			
(By Numerical Sample Descr Replicate	tl Order) iption (color, t (°F/°C) 19.1 19.1 19.1 19.1	Cond. (uS/cm) 516 516 517 517	D.O. (mg/L) 1.3 1.3 1.3 1.3	CLOUDY, I <b>pH</b> <u>6.1</u> <u>6.1</u> <u>6.1</u> <u>6.1</u>	ORP (mV) -23.4 -23.9 -23.9 -24.1	COLOR, NO/NS Turbidity (NTU)	(ft)		
(By Numerical Sample Descr Replicate 1 2 3 4 Average:	tl Order) iption (color, t (°F/°C) <u>19.1</u> <u>19.1</u> <u>19.1</u> <u>19.1</u> <u>19.1</u> <u>19.1</u>	Cond. (uS/cm) 516 516 517 517 517	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3	CLOUDY, I pH 6.1 6.1 6.1 6.1 6.1	CRP (mV) -23.4 -23.9 -23.9 -23.9 -24.1 -23.8	COLOR, NO/NS Turbidity (NTU) #DIV/0!	(ft) 9.82	(Fe II)	
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY	tl Order) iption (color, t (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1	Cond. (uS/cm) 516 516 517 517 517 517 NALYSIS A	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 LLOWED PE	CLOUDY, I pH 6.1 6.1 6.1 6.1 6.1 8.1 8.1 8.1 8.1 6.1	ORP (mV)           -23.4           -23.9           -23.9           -24.1           -23.8           TYPE (Circle a)	COLOR, NO/NS Turbidity (NTU)	(ft) 9.82	(Fe II)	Observations
(By Numerical Sample Descr Replicate 1 2 3 4 Average:	tl Order) iption (color, t (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 19.1 (8260-SIM)	Cond. (uS/cm) 516 516 517 517 517 517 NALYSIS AI (8010) (8020	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 LLOWED PE 0) (NWTPH-0	CLOUDY, I pH 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	ORP (mV)           -23.4           -23.9           -23.9           -24.1           -23.8           TYPE (Circle a)           I-Gx) (BTEX)	COLOR, NO/NS Turbidity (NTU) #DIV/0!	(ft) 9.82 on-standard ar	(Fe II)	Observations
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY	tl Order) iption (color, t (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 (820-SIM) (8270D) (PA	Cond. (uS/cm) 516 516 517 517 517 517 NALYSIS AI (8010) (8020 AH) (NWTPI	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 0) (NWTPH-0 H-D) (NWTP	CLOUDY, I pH 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	ORP (mV)           -23.4           -23.9           -23.9           -23.8           TYPE (Circle a)           I-Gx) (BTEX)           I-HCID) (8081)	COLOR, NO/NS Turbidity (NTU) #DIV/0! plicable or write ne (8141) (Oil & Gre	(ft) 9.82 on-standard ar ease)	(Fe II)	Observations
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY 3	tl Order) iption (color, t <b>Temp</b> (°F/°C) <u>19.1</u> <u>19.1</u> <u>19.1</u> <u>19.1</u> <u>19.1</u> (8260-SIM) (8270D) (PA (8270D) (PA	Cond. (uS/cm) 516 516 517 517 517 517 010 (8020 KH) (NWTPP Ictivity) (TD	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	CLOUDY, I           pH           6.1           7.0           8.0           9.0           9.0           9.0           9.0	ORP (mV)           -23.4           -23.9           -23.9           -23.8           TYPE (Circle aj I-Gx) (BTEX)           I-HCID) (8081)           fity) (Alkalinity)	Turbidity (NTU) #DIV/0! (8141) (Oil & Gree (HCO3/CO3) (CI	(ft) 9.82 on-standard ar ease)	(Fe II)	Observations
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY	tl Order) iption (color, t Temp (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 19.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOO	Cond. (uS/cm) 516 516 517 517 517 517 0010 (8020 010) (8020) (8020 010) (8020) (8020 010) (8020) (8020) (8020) (8020) (8020) (8020)	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	CLOUDY, I           pH           6.1           7.0           7.0           7.0           7.0           7.0           7.0           6.1           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0	ORP (mV)           -23.4           -23.9           -23.9           -23.8           TYPE (Circle a)           I-Gx) (BTEX)           I-HCID) (8081)	Turbidity (NTU) #DIV/0! (8141) (Oil & Gree (HCO3/CO3) (CI	(ft) 9.82 on-standard ar ease)	(Fe II)	Observations
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY 3	tl Order) iption (color, t Temp (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 516 516 517 517 517 517 517 0ALYSIS Al (8010) (8020 AH) (NWTPI (8010) (8020 AH) (NWTPI (5310C) (To c) (To c) (WAD Cy	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	CLOUDY, I pH 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	IGHT BROWN           ORP (mV)           -23.4           -23.9           -23.9           -24.1           -23.8           TYPE (Circle ag           I-Gx) (BTEX)           I-HCID) (8081)           fity) (Alkalinity)           itrogen) (NH3)	COLOR, NO/NS Turbidity (NTU) #DIV/0! pplicable or write no (8141) (Oil & Gree (HCO3/CO3) (CI (NO3/NO2)	(ft) 9.82 0n-standard ar ease) 1) (SO4) (NO	(Fe II)	Observations
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY 3 1	tl Order) iption (color, t Temp (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 (8260-SIM) (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 516 516 517 517 517 517 NALYSIS AJ (8010) (8020 AH) (NWTP) (8010) (8020 AH) (NWTP) (5310C) (Tc) (5310C) (Tc) (b) (WAD C) (AS) (Sb) (	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 LLOWED PE 0) (NWTPH- H-D) (NWTP S) (TSS) (B tal PO4) (Tot yanide) (Free (Ba) (Be) (Ca	CLOUDY, I           pH           6.1           7.8           BOTTLE           G) (NWTPH           DD) (Turbio (Turb	ORP (mV)           -23.4           -23.9           -23.9           -23.9           -23.9           -24.1           -23.8           TYPE (Circle a)           I-Gx) (BTEX)           I-HCID) (8081)           lity) (Alkalinity)           itrogen) (NH3)           (Cr) (Cu) (Fe)	COLOR, NO/NS Turbidity (NTU) #DIV/0! pplicable or write no (8141) (Oil & Gree (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) 9.82 0n-standard ar ease) 1) (SO4) (NO	(Fe II)	Observations
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY 3 1	tl Order) iption (color, t Temp (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 (8260-SIM) (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 516 516 517 517 517 517 517 010 (8020 010 (8020 010 (8020 010 (8020 010 (8020 010 (8020 010 (8020 010 (8020 010 (8020) 010 (8020)	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 LLOWED PE 0) (NWTPH- H-D) (NWTP S) (TSS) (B tal PO4) (Tot yanide) (Free (Ba) (Be) (Ca	CLOUDY, I           pH           6.1           7.8           BOTTLE           G) (NWTPH           DD) (Turbio (Turb	ORP (mV)           -23.4           -23.9           -23.9           -23.9           -23.9           -24.1           -23.8           TYPE (Circle a)           I-Gx) (BTEX)           I-HCID) (8081)           lity) (Alkalinity)           itrogen) (NH3)           (Cr) (Cu) (Fe)	COLOR, NO/NS Turbidity (NTU) #DIV/0! pplicable or write no (8141) (Oil & Gree (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) 9.82 0n-standard ar ease) 1) (SO4) (NO	(Fe II)	Observations OBSERVATIONS OR
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY 3 1	tl Order) iption (color, t Temp (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 19.1 (8260-SIM) (8260-SIM) (8270D) (PA (PH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 516 516 517 517 517 517 517 010 (8020 010 (8020 010 (8020 010 (8020 010 (8020 010 (8020 010 (8020 010 (8020 010 (8020) 010 (8020)	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	CLOUDY, I           pH           6.1           7.8           BOTTLE           G) (NWTPH           DD) (Turbio (Turb	ORP (mV)           -23.4           -23.9           -23.9           -23.9           -23.9           -24.1           -23.8           TYPE (Circle a)           I-Gx) (BTEX)           I-HCID) (8081)           lity) (Alkalinity)           itrogen) (NH3)           (Cr) (Cu) (Fe)	COLOR, NO/NS Turbidity (NTU) #DIV/0! pplicable or write no (8141) (Oil & Gree (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) 9.82 0n-standard ar ease) 1) (SO4) (NO	(Fe II)	Observations OBSERVATIONS OR
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY 3 1	tl Order) iption (color, t Temp (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 19.1 (8260-SIM) (8260-SIM) (8270D) (PA (PH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 516 516 517 517 517 517 517 010 (8020 010) (80200) (80200) (80200) (80200) (80200) (80200) (80200) (80200) (80200) (80	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	CLOUDY, I           pH           6.1           7.8           BOTTLE           G) (NWTPH           DD) (Turbio (Turb	ORP (mV)           -23.4           -23.9           -23.9           -23.9           -23.9           -24.1           -23.8           TYPE (Circle a)           I-Gx) (BTEX)           I-HCID) (8081)           lity) (Alkalinity)           itrogen) (NH3)           (Cr) (Cu) (Fe)	COLOR, NO/NS Turbidity (NTU) #DIV/0! pplicable or write no (8141) (Oil & Gree (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) 9.82 0n-standard ar ease) 1) (SO4) (NO	(Fe II)	Observations OBSERVATIONS OR
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY 3 1	tl Order) iption (color, t Temp (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 (8260-SIM) (8260-SIM) (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 516 516 517 517 517 517 517 010 (8020 010) (80200) (80200) (80200) (80200) (80200) (80200) (80200) (80200) (80200) (80	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	CLOUDY, I           pH           6.1           7.8           BOTTLE           G) (NWTPH           DD) (Turbio (Turb	ORP (mV)           -23.4           -23.9           -23.9           -23.9           -23.9           -24.1           -23.8           TYPE (Circle a)           I-Gx) (BTEX)           I-HCID) (8081)           lity) (Alkalinity)           itrogen) (NH3)           (Cr) (Cu) (Fe)	COLOR, NO/NS Turbidity (NTU) #DIV/0! pplicable or write no (8141) (Oil & Gree (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) 9.82 0n-standard ar ease) 1) (SO4) (NO	(Fe II)	Observations OBSERVATIONS OR
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY 3 1	tl Order) iption (color, t Temp (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 19.1 (8260-SIM) (8260-SIM) (8270D) (PA (PH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 516 516 517 517 517 517 517 (8010) (8020 (10) (8020 (11) (8020) (12)	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	CLOUDY, I           pH           6.1           7.8           BOTTLE           G) (NWTPH           DD) (Turbio (Turb	ORP (mV)           -23.4           -23.9           -23.9           -23.9           -23.9           -24.1           -23.8           TYPE (Circle a)           I-Gx) (BTEX)           I-HCID) (8081)           lity) (Alkalinity)           itrogen) (NH3)           (Cr) (Cu) (Fe)	COLOR, NO/NS Turbidity (NTU) #DIV/0! pplicable or write no (8141) (Oil & Gree (NO3/NO2) Pb) (Mg) (Mn) (N	(ft) 9.82 0n-standard ar ease) 1) (SO4) (NO	(Fe II)	Observations OBSERVATIONS OR
(By Numerical Sample Descr Replicate 1 2 3 4 Average: QUANTITY 3 1	tl Order) iption (color, t Temp (°F/°C) 19.1 19.1 19.1 19.1 19.1 19.1 (8260-SIM) (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth others	Cond. (uS/cm) 516 516 517 517 517 517 NALYSIS AI (8010) (8020 AH) (NWTP) (8010) (8020 AH)	D.O. (mg/L) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	CLOUDY, I pH 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	ORP (mV)           -23.4           -23.9           -23.9           -23.9           -23.9           -24.1           -23.8           TYPE (Circle a)           I-Gx) (BTEX)           I-HCID) (8081)           lity) (Alkalinity)           itrogen) (NH3)           (Cr) (Cu) (Fe)	COLOR, NO/NS Turbidity (NTU) #DIV/0! #DIV/0! plicable or write ne (8141) (Oil & Gree (HCO3/CO3) (Cl (NO3/NO2) Pb) (Mg) (Mn) (N ) (Mg) (Mn) (Ni) (A	(ft) 9.82 0n-standard ar ease) 1) (SO4) (NO	(Fe II)	Observations OBSERVATIONS OR

8/13/2018



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A			Date/Time:	8/ 13 /2018@ 7			
Sample Num	ber:	RGW233I-	180813		Weather:	60'S, PARLTY S	UNNY		
Landau Repr	resentative:	JHA			-				
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio		Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	8.66	Time:	-	Flow through cel	l vol.		GW Meter No.(s	SLOPE 2
Begin Purge:				End Purge:	-	8/ 13 /2018 @ 73	9	Gallons Purged:	
Purge water d			55-gal Drum	Ō	Storage Tank	Ground		SITE TREATM	ENT SYSTEM
-	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /° <b>Ĉ</b> )	(uS/cm)	(mg/L)	-	( <b>mV</b> )	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
						dings within the fol		>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
721	18.8	235	0.6	6.5	-3.2	LOW	8.66	<0.25	
724	18.1	233	0.5	6.2	-3.7				
727	18.3	232	0.4	6.1	-3.4		8.68	0.25	
730	18.3	233	0.3	6.1					
733	18.3	237	0.3	6.1					
736			0.3					0.5	
								0.5	
738	18.3	235	0.3	6.2	-26.9	,			
								·	
SAMPLE CO Sample Collect			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Wa	_	Tap Rinse	DI Water	Dedicated			
(By Numerica		Other		rup remse		Deuleuteu			
			sheen, etc.):	CLEAR, CO	LORLESS, NO/N	IS			
1	1								
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	18.3	239	0.3	6.2	-27.9				
2	18.3	237	0.3	6.2	-28.5				
3	18.3	237	0.3	6.2	-29.6				
4	18.3	236	0.3	6.2	-30.3				
Average:	18.3	237	0.3	6.2	-29.1	#DIV/0!			
							··· · · · · · · · · · · · · · · · · ·		
QUANTITY 3					H-Gx) (BTEX)	plicable or write n	on-standard af	WA	OR 🗆
						(8141) (Oil & Gr	ease)	WA 🗆	OR 🗆
						(HCO3/CO3) (C			-
1					itrogen) (NH3)				
	(Total Cyanid	le) (WAD Cy	anide) (Free	Cyanide)					
1						Pb) (Mg) (Mn) (N			
			o) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (Pl	b) (Mg) (Mn) (Ni) (A	Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (N)	Na) (Hardness) (Silica
	VOC (Boein		<b>t</b> - <b>1</b> -						
	Methane Eth	ane Ethene Ad	cetylene						
	others								
۱ <u>ــــــــــــــــــــــــــــــــــــ</u>									
Duplicate San	nple No(s):	MSMSD Loo	cation						
Comments:									
Signature:			JHA			Date:	8/13/2018		_



Project Nam	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@	740		
Sample Nun	nber:	RGW234S-	180813		Weather:	70s clear			
Landau Repr	resentative:	SRB							
WATER LEV	/EL/WELL/PU	<b>IRGE DATA</b>							
Well Condition	on:	Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	9.03	Time:	700	Flow through cel	l vol.		GW Meter No.(s	heron2
Begin Purge:	Date/Time:	8/ 13 /2018	710	End Purge:	Date/Time:	8/ 13 /2018 @	725	Gallons Purged:	0.25
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°Ĉ)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	ils: Stablizatio +/- 3%		ters for three +/- 0.1 units		dings within the fo +/- 10%	< 0.3 ft	>/= 1 flow through cell	
713		265.1	0.76	6.06		LOW	9.05	un ough een	
			·			LOW			
716		248.5	0.54	6.04	18.5		9.05		
719	17.7	248.1	0.54	6.05	17.3		9.05		
722	17.8	247.8	0.49	6.06	14.3				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	ded bladder			
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	ıl Order)	Other							
							-		
Sample Descr	ription (color, t		sheen, etc.):	SLIGHTLY	GRAY AND TUR	RBID NO/NS	-		
		urbidity, odor,					DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)		b.O. (mg/L)	SLIGHTLY	GRAY AND TUF ORP (mV)	RBID NO/NS Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	Temp	urbidity, odor, Cond.	D.O.		ORP	Turbidity			
Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 17.8	Cond. (uS/cm) 247.2	<b>D.O.</b> (mg/L) 0.51	<b>рН</b> 6.06	ORP (mV) 13.6	Turbidity			
Replicate	Temp (°F/°C) 17.8 17.7	Cond. (uS/cm) 247.2 247.3	D.O. (mg/L) 0.51 0.49	<b>рН</b> 6.06 6.06	ORP (mV) 13.6 13.0	Turbidity			
Replicate 1 2 3	Temp (°F/°C)           17.8           17.7           17.8	Cond. (uS/cm) 247.2 247.3 247.3	D.O. (mg/L) 0.51 0.49 0.49	<b>pH</b> 6.06 6.06 6.07	ORP (mV) 13.6 13.0 12.4	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C) 17.8 17.7 17.8 17.8	Cond. (uS/cm) 247.2 247.3 247.3 247.3 247.0	D.O. (mg/L) 0.51 0.49 0.49 0.49	<b>pH</b> 6.06 6.06 6.07 6.06	ORP (mV) 13.6 13.0 12.4 12.0	Turbidity (NTU)			
Replicate 1 2 3	Temp (°F/°C)           17.8           17.7           17.8	Cond. (uS/cm) 247.2 247.3 247.3	D.O. (mg/L) 0.51 0.49 0.49	<b>pH</b> 6.06 6.06 6.07	ORP (mV) 13.6 13.0 12.4	Turbidity			
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8	Cond. (uS/cm) 247.2 247.3 247.3 247.0 247.2	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50	<b>pH</b> 6.06 6.06 6.07 6.06 6.06	ORP (mV) 13.6 13.0 12.4 12.0 12.8	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8 <b>TYPICAL A</b> (8260-SIM)	Cond. (uS/cm) 247.2 247.3 247.3 247.0 247.0 247.2 NALYSIS AI (8010) (8020	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE	<b>pH</b> 6.06 6.07 6.06 6.06 <b>R BOTTLE</b> G) (NWTPH	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap (-Gx) (BTEX)	Turbidity (NTU) #DIV/0! plicable or write r	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8 17.8 17.8	Cond. (uS/cm) 247.2 247.3 247.3 247.0 247.0 247.0 247.2 NALYSIS AI (8010) (8020 AH) (NWTPH	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 LOWED PE 0.0 (NWTPH-0	pH 6.06 6.07 6.06 6.06 8 BOTTLE G) (NWTPH H-Dx) (TPH	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8 17.8 (8260-SIM) (8270D) (PA (9H) (Condu	Cond. (uS/cm) 247.2 247.3 247.3 247.3 247.0 247.0 247.2 NALYSIS AI (8010) (8020 (8010) (8020 (8010) (8021) (8010) (8021)	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE I-D) (NWTPH-0 (NWTPH-0) (NWTPH-0) (NWTP	pH 6.06 6.07 6.06 6.06 6.06 7 8 BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbid	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8 17.8 (8260-SIM) (8270D) (PA (9H) (Condu (COD) (TOO	Cond. (uS/cm) 247.2 247.3 247.3 247.0 247.0 247.2 NALYSIS AI (8010) (8020 AH) (NWTPH activity) (TDS 25310C) (Tot	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 (NWTPH-6 H-D) (NWTP 3) (TSS) (Be ial PO4) (Tot	pH 6.06 6.07 6.06 6.06 6.06 7 8 BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3 1 1	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid	Cond. (uS/cm) 247.2 247.3 247.3 247.0 247.0 247.0 247.0 247.2 NALYSIS AI (8010) (8020 xH) (NWTPH (ctivity) (TDS 25310C) (Tot e) (WAD Cy	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 LOWED PE 0.50 (NWTPH-0 (NWTPH-0 S) (TSS) (But sal PO4) (Tot anide) (Free b	pH 6.06 6.07 6.06 6.06 8 BOTTLE G) (NWTPH H-Dx) (TPH DD) (Turbid cal Kiedahl Ni Cyanide)	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C (NO3/NO2)	(ft) mon-standard an ease) l) (SO4) (NO3	(Fe II)	Observations Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8 17.8 17.8	Cond. (uS/cm) 247.2 247.3 247.3 247.3 247.0 247.0 247.0 247.2 NALYSIS AI (8010) (8020 AH) (NWTPH (0) (8020) AH) (NWTPH (ctivity) (TDS C5310C) (Tot e) (AS) (Sb) (1)	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 LOWED PE 0.50 (NWTPH-0 (NWTPH-0 (NWTP 3) (TSS) (Bo (aal PO4) (Tot aanide) (Free Ba) (Be) (Ca	pH 6.06 6.07 6.06 6.06 6.06 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           (NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB Control Contro
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1           1	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8 17.8 17.8	Cond. (uS/cm) 247.2 247.3 247.3 247.3 247.0 247.0 247.0 247.2 NALYSIS AI (8010) (8020 AH) (NWTPH (8010) (8020 AH) (NWTPH (ctivity) (TDS C5310C) (Tot e) (WAD Cy o) (As) (Sb) (1 etals) (As) (Sb)	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 LOWED PE 0.50 (NWTPH-0 (NWTPH-0 (NWTP 3) (TSS) (Bo (aal PO4) (Tot aanide) (Free Ba) (Be) (Ca	pH 6.06 6.07 6.06 6.06 6.06 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           (NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations Observations OR
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1           1	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8 17.8 17.8	Cond. (uS/cm) 247.2 247.3 247.3 247.3 247.0 247.0 247.0 247.2 NALYSIS AI (8010) (8020 AH) (NWTPH (8010) (8020 AH) (NWTPH (ctivity) (TDS C5310C) (Tot e) (WAD Cy o) (As) (Sb) (1 etals) (As) (Sb)	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 (NWTPH-0 I-D) (NWTP 5) (TSS) (Be cal PO4) (Tot anide) (Free Ba) (Be) (Cal ) (Ba) (Be) (Cal	pH 6.06 6.07 6.06 6.06 6.06 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           (NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB Control Contro
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1           1	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8 17.8 17.8	Cond. (uS/cm) 247.2 247.3 247.3 247.3 247.0 247.0 247.0 247.2 NALYSIS AI (8010) (8020 AH) (NWTPH (8010) (8020) AH) (NWTPH (8010) (7DS C5310C) (Tot e) (WAD Cy) () (As) (Sb) (1) etals) (As) (Sb)	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 (NWTPH-0 I-D) (NWTP 5) (TSS) (Be cal PO4) (Tot anide) (Free Ba) (Be) (Cal ) (Ba) (Be) (Cal	pH 6.06 6.07 6.06 6.06 6.06 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           (NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB Control Contro
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1           1	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8 17.8 (8260-SIM) (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 247.2 247.3 247.3 247.3 247.0 247.0 247.0 247.2 NALYSIS AI (8010) (8020 AH) (NWTPH (8010) (8020) AH) (NWTPH (8010) (7DS C5310C) (Tot e) (WAD Cy) () (As) (Sb) (1) etals) (As) (Sb)	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 (NWTPH-0 I-D) (NWTP 5) (TSS) (Be cal PO4) (Tot anide) (Free Ba) (Be) (Cal ) (Ba) (Be) (Cal	pH 6.06 6.07 6.06 6.06 6.06 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           (NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB Control Contro
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1           1	Temp (°F/°C) 17.8 17.7 17.8 17.8 17.8 17.8 17.8 17.8	Cond. (uS/cm) 247.2 247.3 247.3 247.3 247.0 247.0 247.0 247.2 NALYSIS AI (8010) (8020 AH) (NWTPH (8010) (8020) AH) (NWTPH (8010) (7DS C5310C) (Tot e) (WAD Cy) () (As) (Sb) (1) etals) (As) (Sb)	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 (NWTPH-0 I-D) (NWTP 5) (TSS) (Be cal PO4) (Tot anide) (Free Ba) (Be) (Cal ) (Ba) (Be) (Cal	pH 6.06 6.07 6.06 6.06 6.06 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           (NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB Control Contro
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1           1	Temp (°F/°C)           17.8           17.7           17.8           (8260-SIM)           (8270D)           (PA)           (COD)           (TOC)           (Total Cyanid)           (Total Metals)           (Dissolved Methane Ethenelling	Cond. (uS/cm) 247.2 247.3 247.3 247.3 247.0 247.0 247.0 247.2 NALYSIS AI (8010) (8020 AH) (NWTPH (8010) (8020) AH) (NWTPH (8010) (7DS C5310C) (Tot e) (WAD Cy) () (As) (Sb) (1) etals) (As) (Sb)	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 (NWTPH-0 I-D) (NWTP 5) (TSS) (Be cal PO4) (Tot anide) (Free Ba) (Be) (Cal ) (Ba) (Be) (Cal	pH 6.06 6.07 6.06 6.06 6.06 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           (NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB Control Contro
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1	Temp (°F/°C)           17.8           17.7           17.8           (8260-SIM)           (8270D)           (PA)           (COD)           (TOC)           (Total Cyanid)           (Total Metals)           (Dissolved Methane Ethenelling	Cond. (uS/cm) 247.2 247.3 247.3 247.3 247.0 247.0 247.0 247.2 NALYSIS AI (8010) (8020 AH) (NWTPH (8010) (8020) AH) (NWTPH (8010) (7DS C5310C) (Tot e) (WAD Cy) () (As) (Sb) (1) etals) (As) (Sb)	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 (NWTPH-0 I-D) (NWTP 5) (TSS) (Be cal PO4) (Tot anide) (Free Ba) (Be) (Cal ) (Ba) (Be) (Cal	pH 6.06 6.07 6.06 6.06 6.06 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           (NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB Control Contro
Replicate  1 2 3 4 Average:  QUANTITY 3 1 1 1 1 Duplicate Sam	Temp (°F/°C)           17.8           17.7           17.8           (8260-SIM)           (8270D)           (PA)           (COD)           (TOC)           (Total Cyanid)           (Total Metals)           (Dissolved Methane Ethenelling	Cond. (uS/cm) 247.2 247.3 247.3 247.3 247.0 247.0 247.0 247.2 NALYSIS AI (8010) (8020 AH) (NWTPH (8010) (8020) AH) (NWTPH (8010) (7DS C5310C) (Tot e) (WAD Cy) () (As) (Sb) (1) etals) (As) (Sb)	D.O. (mg/L) 0.51 0.49 0.49 0.49 0.50 LOWED PE 0.50 (NWTPH-0 I-D) (NWTP 5) (TSS) (Be cal PO4) (Tot anide) (Free Ba) (Be) (Cal ) (Ba) (Be) (Cal	pH 6.06 6.07 6.06 6.06 6.06 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) 13.6 13.0 12.4 12.0 12.8 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) ity) (Alkalinity) trogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           (NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB Control Contro



Project Name	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@	810		
Sample Num	nber:	RGW235I-	180813		Weather:	70s clear			
Landau Repr	resentative:	SRB							
WATER LEV	'EL/WELL/PU	<b>IRGE DATA</b>							
Well Conditio	on:	Secure (YES)	)	Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	8.9	Time:	730	Flow through cel	l vol.	_	GW Meter No.(s	heron2
Begin Purge:	Date/Time:	8/ 13 /2018	740	End Purge:	Date/Time:	8/ 13 /2018 @	805	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	ils: Stablizatio +/- 3%		ters for three +/- 0.1 units		lings within the fo +/- 10%	llowing limits < 0.3 ft	>/= 1 flow through cell	
743	18.3	151.4	0.57	6.54		MED	8.93	un ougn oon	
							·		
746		170.4	0.40	6.05		LOW	8.90		
749	17.8	172.0	0.36	5.94	20.5				
752	17.9	166.7	3.70	6.05	8.6		8.90		
755	17.9	155.4	2.44	6.31	-7.6				
758	17.9	154.3	2.29	6.32	-9.0				
801	17.9	153.0	2.18	6.34	-12.1				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	ded bladder			
Made of:		Stainless Stee	i 🗖	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	lure:	Alconox Was	h 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
Sample Descr							-		
Sample Deser	iption (color, t	urbidity, odor,	sheen, etc.):	SLIGHTLY	GRAY AND TUR	BID NO/NS			
			_				DTW	Ferrous iron	Comments/
Replicate	iption (color, t Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	sheen, etc.): D.O. (mg/L)	SLIGHTLY pH	GRAY AND TUR	BID NO/NS Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	Temp	Cond.	D.O.		ORP (mV)	Turbidity			
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity			
Replicate 1 2	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) <u>17.9</u> 17.9	Cond. (uS/cm) 152.3 152.1	D.O. (mg/L) 2.13 2.16	рН 6.34 6.35	ORP (mV) -12.8 -13.5	Turbidity			
Replicate 1 2 3	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 17.9 17.9 17.9	Cond. (uS/cm) 152.3 152.1 152.0	D.O. (mg/L) 2.13 2.16 2.16	рН 6.34 6.35 6.35	ORP (mV) -12.8 -13.5 -13.6	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C) 17.9 17.9 17.9 17.9	Cond. (uS/cm) 152.3 152.1 152.0 151.6	D.O. (mg/L) 2.13 2.16 2.16 2.03	<b>pH</b> 6.34 6.35 6.35 6.36	ORP (mV) -12.8 -13.5 -13.6 -14.3	Turbidity (NTU)			
Replicate 1 2 3 4 Average:	Temp (°F/°C)           17.9           17.9           17.9           17.9           17.9           17.9           17.9	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12	<b>pH</b> 6.34 6.35 6.35 6.36 6.36	ORP (mV) -12.8 -13.5 -13.6 -14.3 -13.6	Turbidity (NTU) 	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.9 17.9 17.9 17.9 17.9 17.9 17.9	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE	pH 6.34 6.35 6.35 6.36 6.36 6.35 <b>R BOTTLE</b>	ORP (mV) -12.8 -13.5 -13.6 -14.3 -14.3 -13.6 TYPE (Circle ap	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.9 17.9 17.9 17.9 17.9 17.9 <b>TYPICAL A</b> (8260-SIM)	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0	<b>pH</b> 6.34 6.35 6.35 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH	ORP (mV) -12.8 -13.5 -13.6 -14.3 -13.6 TYPE (Circle ap (-Gx) (BTEX)	Turbidity (NTU) #DIV/0! plicable or write n	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 17.9 17.9 17.9 17.9 17.9 17.9 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020 AH) (NWTPH	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 I-D) (NWTP	pH 6.34 6.35 6.35 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH	ORP (mV) -12.8 -13.5 -13.6 -14.3 -13.6 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gr	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.9 17.9 17.9 17.9 17.9 17.9 17.9 (8260-SIM) (8270D) (PA (9H) (Condu	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020 MH) (NWTPH ctivity) (TDS	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (-D) (NWTP ) (TSS) (BC	pH 6.34 6.35 6.35 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid	ORP (mV) -12.8 -13.5 -13.6 -14.3 -13.6 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081) lity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 17.9 17.9 17.9 17.9 17.9 17.9 17.9 (8260-SIM) (8270D) (PA (9H) (Condu (COD) (TOC	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020 MH) (NWTPH ctivity) (TDS	D.O. (mg/L) 2.13 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (-D) (NWTP ) (TSS) (Be al PO4) (Tot	pH 6.34 6.35 6.35 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni	ORP (mV) -12.8 -13.5 -13.6 -14.3 -13.6 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.9 17.9 17.9 17.9 17.9 17.9 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020 MI) (NWTPH (8010) (8020 MI) (NWTPH (ctivity) (TDS C5310C) (Tot e) (WAD Cyst	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (-D) (NWTP ) (TSS) (Br al PO4) (Tot nnide) (Free	pH 6.34 6.35 6.35 6.36 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH DD) (Turbid cal Kiedahl Ni Cyanide)	ORP (mV) -12.8 -13.5 -13.6 -14.3 -14.3 -13.6 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081) Ity) (Alkalinity) (trogen) (NH3) (	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	(ft) mon-standard an ease) l) (SO4) (NO3	(Fe II)	Observations Observations OR
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	Temp (°F/°C) 17.9 17.9 17.9 17.9 17.9 17.9 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS C5310C) (Tot e) (WAD Cya ) (As) (Sb) (B	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (NWTPH-0) (NWTP) ) (TSS) (BC al PO4) (Tot anide) (Free C 3a) (Be) (Ca)	pH 6.34 6.35 6.35 6.36 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) -12.8 -13.5 -13.6 -14.3 -14.3 -13.6 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) I-HCID) (8081) Ity) (Alkalinity) Itrogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations Observations OR
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	Temp (°F/°C) 17.9 17.9 17.9 17.9 17.9 17.9 <b>TYPICAL A</b> (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020 AH) (NWTPH (ctivity) (TDS C5310C) (Tot e) (WAD Cys o) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (NWTPH-0) (NWTP) ) (TSS) (BC al PO4) (Tot anide) (Free C 3a) (Be) (Ca)	pH 6.34 6.35 6.35 6.36 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) -12.8 -13.5 -13.6 -14.3 -14.3 -13.6 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) I-HCID) (8081) Ity) (Alkalinity) Itrogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	Temp (°F/°C)           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           (8260-SIM)           (8270D) (PA           (pH) (Condu           (COD) (TOC           (Total Cyanid           (Total Metals)           (Dissolved Mitoria)           VOC (Boein)	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020 AH) (NWTPH (ctivity) (TDS C5310C) (Tot e) (WAD Cys o) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (-D) (NWTP ) (TSS) (Bo al PO4) (Tot nnide) (Free 0 3a) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.34 6.35 6.35 6.36 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) -12.8 -13.5 -13.6 -14.3 -14.3 -13.6 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) I-HCID) (8081) Ity) (Alkalinity) Itrogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	Temp (°F/°C)           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           (8260-SIM)           (8270D) (PA           (pH) (Condu           (COD) (TOC           (Total Cyanid           (Total Metals)           (Dissolved Mitoria)           VOC (Boein)	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) Context (8010) (8020) (H) (NWTPH (ctivity) (TDS) C5310C) (Tot e) (WAD Cya (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (-D) (NWTP ) (TSS) (Bo al PO4) (Tot nnide) (Free 0 3a) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.34 6.35 6.35 6.36 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) -12.8 -13.5 -13.6 -14.3 -14.3 -13.6 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) I-HCID) (8081) Ity) (Alkalinity) Itrogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	Temp (°F/°C)           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           (8260-SIM)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved M           VOC (Boein           Methane Eth	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) Context (8010) (8020) (H) (NWTPH (ctivity) (TDS) C5310C) (Tot e) (WAD Cya (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (-D) (NWTP ) (TSS) (Bo al PO4) (Tot nnide) (Free 0 3a) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.34 6.35 6.35 6.36 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) -12.8 -13.5 -13.6 -14.3 -14.3 -13.6 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) I-HCID) (8081) Ity) (Alkalinity) Itrogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	Temp (°F/°C)           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           (8260-SIM)           (8270D) (PA           (pH) (Condu           (COD) (TOC           (Total Cyanid           (Total Metals)           (Dissolved Mitoria)           VOC (Boein)	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) Context (8010) (8020) (H) (NWTPH (ctivity) (TDS) C5310C) (Tot e) (WAD Cya (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (-D) (NWTP ) (TSS) (Bo al PO4) (Tot nnide) (Free 0 3a) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.34 6.35 6.35 6.36 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) -12.8 -13.5 -13.6 -14.3 -14.3 -13.6 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) I-HCID) (8081) Ity) (Alkalinity) Itrogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           3           1           1	Temp (°F/°C)           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           (8260-SIM)           (8270D) (PA           (pH) (Condu           (COD) (TOC           (Total Cyanid           (Total Metals)           (Dissolved Mathem Ethented State)           others	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) Context (8010) (8020) (H) (NWTPH (ctivity) (TDS) C5310C) (Tot e) (WAD Cya (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (-D) (NWTP ) (TSS) (Bo al PO4) (Tot nnide) (Free 0 3a) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.34 6.35 6.35 6.36 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) -12.8 -13.5 -13.6 -14.3 -14.3 -13.6 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) I-HCID) (8081) Ity) (Alkalinity) Itrogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           (8260-SIM)           (8270D) (PA           (pH) (Condu           (COD) (TOC           (Total Cyanid           (Total Metals)           (Dissolved Mathem Ethented State)           others	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) Context (8010) (8020) (H) (NWTPH (ctivity) (TDS) C5310C) (Tot e) (WAD Cya (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (-D) (NWTP ) (TSS) (Bo al PO4) (Tot nnide) (Free 0 3a) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.34 6.35 6.35 6.36 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) -12.8 -13.5 -13.6 -14.3 -14.3 -13.6 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) I-HCID) (8081) Ity) (Alkalinity) Itrogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate  1 2 3 4 Average:  QUANTITY 3 1 1 1 1 Duplicate San	Temp (°F/°C)           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           17.9           (8260-SIM)           (8270D) (PA           (pH) (Condu           (COD) (TOC           (Total Cyanid           (Total Metals)           (Dissolved Mathem Ethented State)           others	Cond. (uS/cm) 152.3 152.1 152.0 151.6 152.0 NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) NALYSIS AL (8010) (8020) Context (8010) (8020) (H) (NWTPH (ctivity) (TDS) C5310C) (Tot e) (WAD Cya (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 2.13 2.16 2.16 2.03 2.12 LOWED PE ) (NWTPH-0 (-D) (NWTP ) (TSS) (Bo al PO4) (Tot nnide) (Free 0 3a) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.34 6.35 6.35 6.36 6.36 6.35 <b>R BOTTLE</b> G) (NWTPH H-Dx) (TPH OD) (Turbid al Kiedahl Ni Cyanide) ) (Cd) (Co)	ORP (mV) -12.8 -13.5 -13.6 -14.3 -14.3 -13.6 TYPE (Circle ap (-Gx) (BTEX) I-HCID) (8081) I-HCID) (8081) Ity) (Alkalinity) Itrogen) (NH3) (0 (Cr) (Cu) (Fe) (1	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO3/NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A			Date/Time:	8/13 /2018@	743		
Sample Num	ber:	RGW236S-	-		Weather:	HAZY			
Landau Repr	-	CEB							
WATER LEV									
WATER LEV Well Conditio		Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before		8.33	Time:	-	Flow through ce			GW Meter No.(s	1
Begin Purge:				End Purge:	-	8/13 /2018 @	725	Gallons Purged:	0.25
Purge water d		0/ 13 /2010	55-gal Drum	Ē.	Storage Tank	Ground		SITE TREATM	
Fuige water u	isposed to.	4	55-gai Diulli	4	Storage Talik	Giouna		SHE IKEAIM	
<b>••</b>	Temp	Cond.	<b>D.O.</b>	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C) Purge Goa	(uS/cm) ls: Stablizatio	(mg/L) on of Parame	ters for three	(mV) e consecutive rea	(NTU) dings within the fo	(ft) Ilowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
711	16.5	401.7	1.18	6.41	71.3		8.68		
714	16.6	412.4	0.91	6.28	73.0		8.58		
717	16.6	413.2	1.06	6.27	76.0		8.49		
720	16.7	410.2	1.11	6.27	76.6		8.45		
723	16.8	406.6	1.08	6.28	77.0				
SAMPLE CO	I LECTION F								
Sample Collec			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	ure:	Alconox Wa		Tap Rinse	DI Water			<b>7</b> 7	
(By Numerica		Other		T	4	<b>₩</b>			
			sheen, etc.):	CLEAR CO	LORLESS NO/N	5			
1	1								
Replicate	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Ferrous iron	Comments/
	(° <b>F</b> /° <b>C</b> )	(uS/cm)	(mg/L)		( <b>mV</b> )	(NTU)	( <b>ft</b> )	(Fe II)	Observations
1	16.9	403.4	1.04	6.28	76.1				
2	16.9	402.7	1.04	6.28	76.2				
3	17.0	402.2	1.05	6.28	76.0				
4	17.0	401.4	1.03	6.28	75.4				
Average:	17.0	402.4	1.04	6.28	75.9	#DIV/0!			
						plicable or write	non-standard ai		
3					I-Gx) (BTEX)	(0141) (01.0 0	```	WA L	OR
						(8141) (Oil & G		$\frac{\text{WA}}{\text{WA}}$	OR 🗆
1					itrogen) (NH3)	(HCO3/CO3) (0 (NO3/NO2)	(504) (NO	(NO2) (F)	
1		$\frac{25510C}{WAD Cy}$			niogen) (1113)	(1105/1102)			
1	· · · · ·	· · · · · · · · · · · · · · · · · · ·	<i>,</i> , ,		(Cr) $(Cu)$ $(Fe)$	(Pb) (Mg) (Mn) (	Ni) (Ag) (Se) (	Tl) (V) (Zn) (He	y) (K) (Na)
1									(Hardness) (Silica
	VOC (Boein		, , (20) (0	(22)(20)				// (8/ (/) (1	, ( <u></u> , (Sino
	```	ane Ethene A	cetylene						
			·						
	others								
Duplicate San	1 N ( )								

Duplicate Sample No(s)

Comments:



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/14 /2018@	1248		
Sample Nun	nber:	RGW031S-	180814		Weather:	HAZY, 80S			
Landau Rep	resentative:	CEB							
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	5.37	Time:	1216	Flow through ce			GW Meter No.(s	1
Begin Purge:	Date/Time:	8/14/2018	1218	End Purge:		8/14 /2018 @		Gallons Purged:	
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATME	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	/	· /		ters for three	consecutive rea	dings within the fo	· · ·	>/= 1 flow	Obser various
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1221	21.2	316.4	0.16	6.10	93.3		5.37		
1224	23.5	355.1	0.20	6.08	83.6	LOW	5.35		
1227	23.6	358.2	0.19	6.13	79.0		5.35		
1230	23.7	367.3	0.21	6.17	70.9				
1233									
1236									
1238									
	·								
SAMPLE CC	LLECTION I	DATA		•••••••					
Sample Colle	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	el 🗖	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proceed	lure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica		Other							
Sample Desci	ription (color, t	urbidity, odor	, sheen, etc.):	CLEAR, SO	ME BROWN PA	RTICULATES, NO	D/NS		
Replicate	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Ferrous iron	Comments/
	(° <b>F</b> /° <b>C</b> )	(uS/cm)	(mg/L)		( <b>mV</b> )	(NTU)	( <b>ft</b> )	(Fe II)	Observations
1	23.8	372.2	0.23	6.18	68.4				
2	23.8	375.2	0.24	6.18	66.8				
3	23.8	376.5	0.23	6.19	65.60	-			
4	23.8	378.7	0.22	6.19	63.9				
Average:	23.8	375.7	0.23	6.19	66.2	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LOWED PF	R BOTTLE	TYPE (Circle a)	oplicable or write	non-standard ar	alvsis below)	
5	(8260) (8010		WTPH-G) (						OR 🗌
	(8270) (PAH	I) (NWTPH-	D) (NWTPH	I-Dx) (TPH-	HCID) (8081)	(8141) (Oil & Gre	ase)	WA 🗆	OR 🗆
						(HCO3/CO3) (0	Cl) (SO4) (NO	3) (NO2) (F)	
1	(COD) (TOO				) (NH3) (NO3)	/NO2)			
	1	le) (WAD Cy ) (As) (Sb) (			(Cr) $(Cu)$ $(Fe)$	(Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (	T1) (V) (7n) (Ha	) (K) (Na)
									a) (Hardness) (Silica
	VOC (Boein								
	Methane Eth	ane Ethene Ad	cetylene						
	oth or -								
	others								
				_					
Duplicate Sar		Duplicate Lo	cation (DUP2						



Project Nam	ne:	Boeing Rent	on		Project Numbe	er:	0025217.099.0	99	
Event:		Quarterly A			Date/Time:	8/ 14 /2018@	1100		
Sample Nur	nber:	RGWDUP2			Weather:	HAZY, 80S			
Landau Rep	resentative:	CEB							
WATER LE	VEL/WELL/P	URGE DATA							
Well Condition		Secure (YES)		Damaged (N	0)	Describe:			
DTW Before	Purging (ft)		Time:		Flow through ce	ll vol.		GW Meter No.(s	3)
	Date/Time:	8/ /2018 @		End Purge:	-	8/ /2018 @		Gallons Purged:	<i>,</i>
Purge water of	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /° <b>Ĉ</b> )	(uS/cm)	(mg/L)	•	( <b>mV</b> )	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive rea +/- 10 mV	dings within the fo +/- 10%	llowing limits < 0.3 ft	>/= 1 flow through cell	
	T/- 3 70	T/- 3 70	T/- 10 70	+/- 0.1 units	τ/- 10 m v	+/- 10 //	< 0.5 It	through ten	
		DIT	NIC	лте л	TO RGV	W031S			
						10515			
SAMPLE CO	DLLECTION I	DATA				·			
Sample Colle	ected With:		Bailer		Pump/Pump Type	e DED BLADDER			
Made of:		Stainless Stee	1 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other							
Sample Desc	ription (color,	turbidity, odor,	sheen, etc.):	CLEAR, SO	ME BROWN PA	RTICULATES, NO	D/NS		
Replicate	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	(°F/°C)	(uS/cm)	(mg/L)	pii	(mV)	(NTU)	(ft)	(Fe II)	Observations
1	23.8	273.6	0.23	6.18	67.4				
2	23.9	376.7	0.23	6.19	66.2				
3	23.8	377.5	0.23	6.19	65.00				
4		378.0	0.23	6.19	64.4				
	23.8								
Average:	23.8	351.5	0.23	6.19	65.8	#DIV/0!			
QUANTITY						pplicable or write i	non-standard ar		
5		0) (8020) (N						WA 🗆	OR 🗌
	(8270) (PAI	/ ``	6.5			(8141) (Oil & Gre		$\frac{\text{WA}}{2}$	OR 🗆
1	(COD) (TO				n) (NH3) (NO3)	) (HCO3/CO3) (0 /NO2)	<u>.1) (504) (NO</u>	3) (NO2) (F)	
1		le) (WAD Cya			i) (1113) (1103)	(1102)			
	1				(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (	Γl) (V) (Zn) (H <sub>2</sub>	g) (K) (Na)
									Na) (Hardness) (Silica
	VOC (Boeir	g short list)							
	Methane Eth	ane Ethene Ac	etylene						
	others								
L	others								
Duplicate Sar	mple No(s):	Duplicate to I	RGW031S						
Comments:									
Signature:	CEB					Date:	8/14/2018		



Project Nam	e <u>:</u>	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/14 /2018@	1428		
Sample Num	ber:	RGW033S-	180814		Weather:	HAZY			
Landau Repr	resentative:	CEB							
WATER LEV	EL/WELL/PU	URGE DATA							
Well Conditio	n:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	5.5	Time:	1356	Flow through ce	l vol.	_	GW Meter No.(s	3 1
Begin Purge:	Date/Time:	8/14 /2018	1357	End Purge:	Date/Time:	8/14 /2018 @	1420	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /° <b>C</b> )	(uS/cm)	( <b>mg/L</b> )	I	( <b>mV</b> )	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%	on of Parame +/- 10%	ters for three +/- 0.1 units		dings within the fo +/- 10%	ollowing limits < 0.3 ft	>/= 1 flow through cell	
1400								thi ough cen	
1400	22.1	403.4	0.21	6.11		LOW	5.50		
1403	22.7	396.1	0.19	6.13	59.1		5.50		
1406	23.4	395.3	0.20	6.16	51.9		5.50		
1409	23.6	399.3	0.23	6.17	49.3				
1412	23.6	404.1	0.25	6.16	45.8				
1415	23.6	407.2	0.26	6.14	43.4				
1417	23.6	412.8	0.32	6.14	41.1				
1-117	23.0	412.0	0.32	0.14					
SAMPLE CO	LLECTION I	DATA							
Sample Collec			Bailer	<u>ل</u>	Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	el 🗖	PVC	Teflon	Polyethylene	Ι	Dedicated	
Decon Proced	ure:	Alconox Wa	sh 🗖	Tap Rinse	DI Water	Dedicated		<b>∽</b> ⊀	
(By Numerica	l Order)	D Other		-	421	<del>''X</del>	_		
Sample Descr	iption (color, 1	turbidity, odor	, sheen, etc.):	CLEAR CO	LORLESS, SOM	E ODOR, NS			
									<u> </u>
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	23.6	413.1	0.33	6.14	40.6	(((10))		(1 • 11)	
2	23.6	413.6	0.33	6.14	40.4		-		
3	23.6	414.4	0.34	6.14	40.10				
4	23.6	414.8	0.34	6.14	39.8		·		
Average:	23.6	414.0	0.34	6.14	40.2	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LOWED PE	R BOTTLE	TYPE (Circle a)	oplicable or write	non-standard ai	nalysis below)	
5	( <b>8260</b> ) (8010	0) (8020) (N	WTPH-G) (	NWTPH-Gx)	(BTEX)	-		WA 🗆	OR 🗌
	(8270) (PAH	H) (NWTPH-	D) (NWTPH	I-Dx) (TPH-	HCID) (8081)	(8141) (Oil & Gre	ease)	WA 🗆	OR 🗆
	(pH) (Condu	ctivity) (TD	S) (TSS) (B	OD) (Turbio	dity) (Alkalinity)	(HCO3/CO3) (	Cl) (SO4) (NO	3) (NO2) (F)	
1					n) (NH3) (NO3)	NO2)			
		le) (WAD Cy							· · · · · · · · · · · · · · · · · · ·
						$\frac{(Pb) (Mg) (Mn) (Mn)}{(Ma) (Ma) (Ma) (Ma)}$			
	VOC (Boein		) (Ba) (Be) (C	<u>.a) (Cd) (Co)</u>	(Cr) (Cu) (Fe) (P	(Mg) (Mn) (N1)	(Ag) (Se) (11) (V	) (Zn) (Hg) (K) (r	Na) (Hardness) (Silica
		ane Ethene A	cetylene						
	2		· · · · ·						
	others								

Duplicate Sample No(s):

Comments:



Project Nam	e:	Boeing Ren	iton		Project Numbe	er:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 14 /2018@	1513		
Sample Nun	nber:	RGW034S-	180814		Weather:	HAZY 80S			
Landau Rep	resentative:	CEB							
WATER LEV	EL/WELL/P	URGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	(0)	Describe:			
DTW Before	Purging (ft)	5.58	Time:	1439	Flow through ce	l <u>l vol.</u>		GW Meter No.(s	s 1
Begin Purge:	Date/Time:	8/14 /2018	1440	End Purge:	Date/Time:	8/14 /2018 @	1457	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa	is: Stablizatio +/- 3%	on of Parame +/- 10%	ters for three +/- 0.1 units		dings within the fo +/- 10%	< 0.3  ft	>/= 1 flow through cell	
1443	22.3	321.4	0.19	6.28	54.9	LOW	5.59		
1446	24.9	334.3	0.21	6.21	52.3		5.60		
1449	25.3	336.4	0.20	6.27	46.7		5.60		
1452	25.6	337.4	0.21	6.30	37.7				
1455									
1458									
SAMPLE CO	LLECTION I	DATA							
Sample Collec	cted With:		Bailer	<b>V</b>	Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated		~	
(By Numerica	l Order)	Other				-X			
Sample Descr	iption (color,	turbidity, odor	, sheen, etc.):	CLEAR, CC	DLORLESS NO/N	IS			
Replicate	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	(°F/°C)	(uS/cm)	(mg/L)	pn	(mV)	(NTU)	(ft)	(Fe II)	Observations
1	25.9	338.8	0.22	6.31	36.7				
2	25.9	338.7	0.22	6.31	35.9				
3	25.9	338.7	0.22	6.32	35.50				
4	25.9	338.7	0.24	6.32	35.0				
Average:	25.9	338.7	0.23	6.32	35.8	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LLOWED PE	R BOTTLE	TYPE (Circle a)	oplicable or write	non-standard ar	nalysis below)	
5	( <b>8260</b> ) (801		WTPH-G) (					WA 🗆	OR 🗆
						(8141) (Oil & Gre		WA 🗆	OR 🗆
						) (HCO3/CO3) (C	Cl) (SO4) (NO	3) (NO2) (F)	
1					n) (NH3) (NO3	/NO2)			
		$\frac{\text{le}}{(\text{WAD Cy})}$			(Cr) $(Cu)$ $(Eo)$	$(\mathbf{D}\mathbf{h})$ $(\mathbf{M}\mathbf{a})$ $(\mathbf{M}\mathbf{n})$ $(\mathbf{M}\mathbf{n})$	$(\Lambda \alpha) (S \alpha) (C \alpha)$	$\mathbf{T}$ $\mathbf{U}$ $\mathbf{T}$ $\mathbf{U}$	$(\mathbf{V})$ $(\mathbf{N}_{0})$
						$\frac{(Pb) (Mg) (Mn) (1)}{(h) (Mg) (Mn) (Ni) (1)}$			(K) (Na) Na) (Hardness) (Silica
<u> </u>	VOC (Boein		, ( <b>D</b> u) ( <b>D</b> C) ( <b>C</b>	<i>(Cu)</i> (CU)		(141) (141)	<u>116) (50) (11) (V</u>	$\frac{1}{2}$	(a) (Haraness) (Sille
		ane Ethene A	cetylene						
			· · · · · · · · · · · · · · · · · · ·						
	others								
Duplicate San									

Duplicate Sample No(s):

Comments:



Event:         Ouncredy August 2018         Date/Time:         # / 1 / 2018@         1500           Sample Number:         SRD         SR	Project Nam	e:	Boeing Rent	ton		Project Number	r:	0025217.099.0	99	
Landau Representative:       SRB         WATER LYFLOWED JAPLACED DATA       Source (YES)       Danaged (NO)       Describe:	Event:		Quarterly A	ugust 2018		Date/Time:	8/ 14 /2018@	1500		
WATER LEVEL/PURGE DATA         Wall condition:       Secure (YES)       Damaged (ND       Describe:       GW Mear No.(5, IFEKON3         Begin Page:       Dau/Time:       & 14.2016       Time:       1282       Four brough call vol.       GW Mear No.(5, IFEKON3         Begin Page:       Dau/Time:       & 14.2016       Time:       Cond       Other       STET EXERTINE TYSTEM         Time       Temp       Cond       DO.       pill       Other       Cond       Other       STET Temp       Comments'         Time       Temp       Cond       DO.       pill       Other       Cond       Other       STET Temp       Observations         1435       24.3       31.0       0.12       6.17       5.69       Other       Sternal Page       Observations         1442       24.4       32.3       0.00       6.33       5.5       S.69       Other       Other       Observations         Sample Collected With:       Baller       PVC       Tethon       Poll Page Page Page Page Page Page Page Page	Sample Nun	nber:	RGW038S-	180814		Weather:	70S SMOKY			
Well conductor:       Secure (VES)       Damaged NO)       Descrite:         DTW Bafore Purging fnip       5.66       Time:       1428       Flow though cell vul.       GW Mater No.(s HERON3)         Beign Purgi:       Date/Time:       2/14 / 2018       1430       Gallons Purgit:	Landau Rep	resentative:	SRB							
DTW Refore Purging (f)       5.69       Time:       1428       Flow through cell vol.       GW Mater No.(5 HERON3       0.22         Purge water disposed to:       S 5.240       DDUm       Storage Tank       G Cound       Other STET TRATINEET SYSTEM       Observations       0.22         Purge water disposed to:       G Cound       D.O.       PII       ORP       Turbidity       PT       Cound       Observations       Observations	WATER LEV	EL/WELL/PU	IRGE DATA							
Begin Purge:         Date Time:         8/14 / 2018         1430         End Purge:         Date Time:         8/14 / 2018 @         1450         Glow Purget         0.02           Purge water disposed us:         0         35-gal Drum         0         Storage Task         0         Ground         0 Oter         STITE TREATMENTS SYSTEM         Observations         STITE TREATMENTS SYSTEM         Observations         >>>>>>>>>>>>>>>>>>>>>>>>>>>>	Well Condition	on:	Secure (YES)		Damaged (N	O)	Describe:			
Purge water disposed to:         □         55-rgal Drun         □         Storage Tank.         □         Ground         □         Other         STTE TREATMENT SYSTEM           Time              Fermp	DTW Before	Purging (ft)	5.69	Time:	1428	Flow through cel	l vol.		GW Meter No.(s	HERON3
Time         Temp (FFC)         Cond. (uSCm)         D.O. (ugL)         pH         ORP (nY)         Turbidity (NTU)         DTW (t)         Internal Purge (t)         Comments/ Observations           1433         44.3%         44.0%         49.0%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%         49.10%	Begin Purge:	Date/Time:	8/14 /2018	1430	End Purge:	Date/Time:	8/ 14 /2018 @	1450	Gallons Purged:	0.25
Time         CFC0         (usKcm)         (mgL)         (nV)         (NTC)         (f)         (f)         Observations           1433         24.3         311.9         0.12         6.17         22.7         10W         5.69	Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Purge Goals: Stabilization of Parameters for three consecutive readings within the following limits         >>= 110w           1433         24.3         311.9         0.12         6.17         22.7         LOW         5.69           1436         14.4         320.0         0.13         6.23         19.5         5.69           1439         24.6         325.1         0.10         6.28         15.7         5.69           1442         24.7         336.3         0.09         6.34         9.4	Time				рН		•		0	
1433       24.3       311.9       0.12       6.17       22.7       LOW       5.69         1436       144       320.0       0.13       6.23       19.5       5.69		0		n of Parame			0	0		
1436       144       320.0       0.13       6.23       19.5       5.69         1439       24.6       325.1       0.10       6.28       15.7       5.69         1442       24.7       336.3       0.09       6.34       9.4		+/- 3%		+/- 10%				< 0.3 ft	through cell	
1439       24.6       325.1       0.10       6.28       15.7       5.69         1442       24.7       336.3       0.09       6.34       9.4         1445       24.5       341.7       0.08       6.35       5.5         1448       24.5       341.7       0.08       6.35       5.5         1448       24.5       341.7       0.08       6.35       5.5         Sample CollectWith:       Bailer       Pump/Pamp Type       DED BLADDER       Dedicated         Bacono Wash       Tap Rinse       D Water       Dedicated       Dedicated         By Numerical Order)       Other       Other	1433	24.3	311.9	0.12	6.17	22.7	LOW	5.69		
1442       247       336.3       0.09       6.34       9.4	1436	14.4	320.0	0.13	6.23	19.5		5.69		
1445       24.5       341.5       0.08       6.35       5.5	1439	24.6	325.1	0.10	6.28	15.7		5.69		
1448       24.5       341.7       0.08       6.35       5.5         SAMPLE COLLECTION DATA         Sample Collected With:       Bailer       Pump/Pump Type DED BLADDER         Made of:       Distainless Steel       PVC       Teflon       Dolyshylene       Other       Dedicated         Made of:       Alconox Wash       Tap Rinse       DI Water       Dedicated       Dedicated         (ky Numerical Order)       Other       Alconox Wash       Tap Rinse       DI Water       Dedicated         (ky Numerical Order)       Other       Made of:       Stainless Steel       PVC       Terloin       Dedicated         (ky Numerical Order)       Other       Alconox Wash       Tap Rinse       DI Water       Dedicated       Dedicated         (ky Numerical Order)       Other       Made of:       Stainless Steel       PVC       Terloin       Polyethylene       Other       Dedicated         Sample Decollected With:       Made of:       Alconox Wash       Tap Rinse       DI Water       Dedicated       Other       Dedicated         Sample Decollected With:       Made of:       Stainless Steel       DVC       Terloin       Other       Terloin       Dedicated         Satististi       14       24.5	1442	24.7	336.3	0.09	6.34	9.4				
SAMPLE COLLECTION DATA         Sample Collected With:       Bailer       Pump/Pump Type DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Bailer       Other       Other       Dedicated       Dedicated       Dedicated       Dedicated         By Numerical Order)       Other       Other       Dedicated       Dedicated       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY GRAY AND TURBID NO/NS       DTW       Ferrous iron       Comments/         1       24.5       342.2       0.08       6.35       5.0	1445	24.5	341.5	0.08	6.35	5.5				
SAMPLE COLLECTION DATA         Sample Collected With:       Bailer       Pump/Pump Type DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Bailer       Other       Other       Dedicated       Dedicated       Dedicated       Dedicated         By Numerical Order)       Other       Other       Dedicated       Dedicated       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY GRAY AND TURBID NO/NS       DTW       Ferrous iron       Comments/         1       24.5       342.2       0.08       6.35       5.0	1448	24.5	341.7	0.08	6.35	5.5				
Sample Collected With:  Sample Collected With:  Sample Collected With:  Sample Collected With:  Sample Description (color, turbidity, odor, sheen, etc.):  SLIGHTLY GRAY AND TURBID NO/NS  Replicate CFFC0 Cond. DO. pH ORP Turbidity Oft ("FFC) ORB COND ("GPC) ORB COND COND COND COND COND COND COND COND										
Sample Collected With:  Sample Collected With:  Sample Collected With:  Sample Collected With:  Sample Description (color, turbidity, odor, sheen, etc.):  SLIGHTLY GRAY AND TURBID NO/NS  Replicate CFFC0 Cond. DO. pH ORP Turbidity Oft ("FFC) ORB COND ("GPC) ORB COND COND COND COND COND COND COND COND										
Sample Collected With:  Sample Collected With:  Sample Collected With:  Sample Collected With:  Sample Description (color, turbidity, odor, sheen, etc.):  SLIGHTLY GRAY AND TURBID NO/NS  Replicate CFFC0 Cond. DO. pH ORP Turbidity Oft ("FFC) ORB COND ("GPC) ORB COND COND COND COND COND COND COND COND	SAMPLE CO	LLECTION D	ATA							
Decon Procedure:       Alconox Wash       Tap Rinse       D Water       Dedicated         (By Numerical Order)       Other	Sample Colle	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
By Numerical Order)       Other           Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY GRAY AND TURBID NO/NS         Replicate       Temp (°F/°C)       Cond. (uS/cm)       D.O. (mg/L)       PH       ORP (mV)       Turbidity (NTU)       DTW (ft)       Ferrous iron (Fe II)       Comments/ Observations         1       24.5       342.2       0.08       6.35       4.7	Made of:		Stainless Stee	1	PVC	Teflon	Polyethylene	Other	Dedicated	
Sample Description (color, turbidity, odor, sheen, etc.): _SLIGHTLY GRAY AND TURBID NO/NS         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       DTW       Ferrous iron       Comments/         1       24.5       342.2       0.08       6.35       5.0	Decon Proced	lure:	Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
Replicate       Temp       Cond. (uS/cm)       D.O. (mg/L)       pH       ORP (mV)       Turbidity (NTU)       DTW (Rt)       Ferrous iron (Fe II)       Comments/ Observations         1       24.5       342.2       0.08       6.35       5.0	(By Numerica	ıl Order)	Other							
Image: CF/°C       (uS/cm)       (mgL)       (mV)       (NTU)       (ft)       (Fe II)       Observations         1       24.5       342.2       0.08       6.35       5.0	Sample Descr	ription (color, t	urbidity, odor,	sheen, etc.):	SLIGHTLY	GRAY AND TUR	BID NO/NS			
Image: CF/°C       (uS/cm)       (mgL)       (mV)       (NTU)       (ft)       (Fe II)       Observations         1       24.5       342.2       0.08       6.35       5.0	Daulianta	Tomm	Cand	DO		OPP	T	DTW	Formous iron	Commonts/
1       24.5       342.2       0.08       6.35       5.0         2       24.5       342.2       0.08       6.35       4.7         3       24.5       342.4       0.08       6.35       4.8         4       24.5       342.6       0.08       6.35       4.2         Average:       24.5       342.4       0.08       6.35       4.2         QUNTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)          5       (8260)       (8010)       (NWTPH-D)       (NWTPH-GX)       (BTEX)       WA       OR         (8270)       (PAH)       (NWTPH-D)       (NWTPH-GX)       (BTEX)       WA       OR          (PH)       (Conductivity)       (TDS)       (TSS)       (BOD)       (TPH-HCID)       (S081)       (8141)       (Oil & Grease)       WA       OR          (PH)       (Conductivity)       (TDS)       (TSS)       (BOD)       (Turbidity)       (Alkalinity)       (HCO3/CO3)       (Cl) (S04)       (NO3)       (NO2)       (F)         1       (COD)       (TOctal PO4)       (Total Kiedahl Nitrogen)       (NH3)       (NO3/NO2)       (Total Metals)       (As)	Replicate				рп		•			
2       24.5       342.2       0.08       6.35       4.7         3       24.5       342.4       0.08       6.35       4.8         4       24.5       342.6       0.08       6.35       4.2         Average:       24.5       342.4       0.08       6.35       4.2         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-G)       (BTEX)       WA       OR       0R         (8270)       (PAH)       (NWTPH-D)       (NWTPH-DI)       (BTEX)       WA       OR       0R         (\$270)       (PAH)       (NWTPH-D)       (NTPH-HCID)       (B81)       (8141)       (Oil & Grease)       WA       OR         (\$270)       (PAH)       (NWTPH-D)       (Turbidity)       (Alkalinity)       (HCO3/CO3)       (Cl)       (S04)       (NO3)       (NO2)       (F)         1       (COD)       (Total PC4)       (Total Keidah) Nitrogen)       (NH3)       (NO2/CO3)       (Cl)       (S0)       (Ha)       (Kladah)       (Kladah)       (Kladah)       (Kladah)       (Kladah)       (Kladah)       (Kladah)       (Kladah)       (Kladah)	1	24.5	2 ( 2 2							
3       24.5       342.4       0.08       6.35       4.8         4       24.5       342.6       0.08       6.35       4.2         Average:       24.5       342.4       0.08       6.35       4.7       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR       Image: Conductivity       OR       Image: Conductivity       OR       Image: Conductivity       OR       Image: Conductivity       COD       (PAH)       (NWTPH-Dx)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       Image: Conductivity       OR       Image: Conductivity       OR       Image: Conductivity       COD       COD       (COD       (Total VeAD)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       Image: Conductivity       COD       TDC       TTotal Cyanide       Image: Conductivity       COD       COD       (Total VeAD)       (Cod)	2		342.2	0.08	6.35	5.0				
4       24.5       342.6       0.08       6.35       4.2         Average:       24.5       342.4       0.08       6.35       4.7       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-G)       (BTEX)       WA       OR	2	24.5								
Average:       24.5       342.4       0.08       6.35       4.7       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR	3		342.2	0.08	6.35	4.7				
QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)         5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR		24.5	<u>342.2</u> 342.4	0.08	6.35 6.35	4.7				
5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR         (8270)       (PAH)       (NWTPH-D)       (NWTPH-Dx)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       OR         (pH)       (Conductivity)       (TDS)       (TSS)       (BOD)       (Turbidity)       (Alkalinity)       (HCO3/CO3)       (Cl)       (SO4)       (NO3)       (NO2)       (F)         1       (COD)       (TOC)       (Total PO4)       (Total Kiedahl Nitrogen)       (NH3)       (NO3/NO2)       (Total Cyanide)       (WAD Cyanide)       (Free Cyanide)         (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Va)       (Ma)       (Ma)         (Dissolved Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Cu)       (Fe)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (TI)       (N)       (A)       (Hardness)       (Silica)         VOC       (Boeing short list)       Methane Ethene Acetylene	4	24.5 24.5	<u>342.2</u> <u>342.4</u> <u>342.6</u>	0.08 0.08 0.08	6.35 6.35 6.35	4.7 4.8 4.2	#DIV/01			
(8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA       OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethene Acetylene         others         Duplicate Sample No(s):	4 Average:	24.5 24.5 24.5	342.2 342.4 342.6 342.4	0.08 0.08 0.08 0.08	6.35 6.35 6.35 6.35	4.7 4.8 4.2 4.7				
(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others	4 Average: <b>QUANTITY</b>	24.5 24.5 24.5 TYPICAL A	342.2 342.4 342.6 342.4 NALYSIS AL	0.08 0.08 0.08 0.08 LOWED PE	6.35 6.35 6.35 6.35 R BOTTLE	4.7 4.8 4.2 4.7 TYPE (Circle ap		  on-standard an		
1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others         Duplicate Sample No(s):	4 Average: <b>QUANTITY</b>	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010	342.2 342.4 342.6 342.4 NALYSIS AL 0) (8020) (N	0.08 0.08 0.08 0.08 LOWED PE WTPH-G) (1	6.35 6.35 6.35 6.35 R BOTTLE	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX)	plicable or write n		WA 🗆	
(Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others         Duplicate Sample No(s):         Comments:	4 Average: <b>QUANTITY</b>	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF	342.2 342.4 342.6 342.4 NALYSIS AL (NUTPH-I N) (8020) (N	0.08 0.08 0.08 0.08 <b>LOWED PE</b> WTPH-G) (1 D) (NWTPH	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WWTPH-GX) -Dx) (TPH-I	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (5	plicable or write n 8141) (Oil & Grea	se)	WA 🗆	
(Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others         Duplicate Sample No(s):         Comments:	4 Average: QUANTITY 5	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAH (pH) (Condu	342.2 342.4 342.6 342.4 NALYSIS AL 0) (8020) (N H) (NWTPH-I ctivity) (TDS	0.08 0.08 0.08 0.08 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (BC	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WTPH-Gx) -Dx) (TPH-1 DD) (Turbid	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (5 ity) (Alkalinity)	plicable or write n 8141) (Oil & Grea (HCO3/CO3) (Cl	se)	WA 🗆	
VOC (Boeing short list)     Methane Ethane Ethane Acetylene       others   Duplicate Sample No(s):	4 Average: QUANTITY 5	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAH (PH) (Condu (COD) (TOC	342.2 342.4 342.6 342.4 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4	0.08 0.08 0.08 0.08 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (BC ) (Total Kiec	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WTPH-Gx) -Dx) (TPH-I DD) (Turbid lahl Nitrogen)	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (5 ity) (Alkalinity)	plicable or write n 8141) (Oil & Grea (HCO3/CO3) (Cl	se)	WA 🗆	
Methane Ethane Ethane Acetylene   Methane Ethane Ethane Acetylene   Image: Comments:	4 Average: QUANTITY 5	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid	342.2 342.4 342.6 342.4 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya	0.08 0.08 0.08 0.08 <b>LOWED PE</b> WTPH-G) (1 D) (NWTPH) ) (TSS) (BC ) (Total Kiec unide) (Free	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WTPH-GX) -DX) (TPH-I DD) (Turbid lahl Nitrogen) Cyanide)	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (( ity) (Alkalinity) ) (NH3) (NO3/1	plicable or write n 8141) (Oil & Grea (HCO3/CO3) (Cl NO2)	se) 1) (SO4) (NO3	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR
others       Duplicate Sample No(s):       Comments:	4 Average: QUANTITY 5	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	342.2 342.4 342.6 342.4 NALYSIS AL )) (8020) (N I) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya ) (As) (Sb) (F	0.08 0.08 0.08 0.08 <b>LOWED PE</b> WTPH-G) (1 0) (NWTPH- 0) (TSS) (B6 0) (Total Kiec unide) (Free 0 3a) (Be) (Ca)	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WTPH-GX) -DX) (TPH-I DD) (Turbid lahl Nitrogen) Cyanide) 0 (Cd) (Co)	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (i ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	plicable or write n 8141) (Oil & Grea (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	se) 1) (SO4) (NO3 i) (Ag) (Se) (T	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR  (K) (Na)
Duplicate Sample No(s): Comments:	4 Average: QUANTITY 5	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	342.2 342.4 342.6 342.6 342.4 NALYSIS AL 0) (8020) (N 1) (NWTPH-I activity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (I etals) (As) (Sb) g short list)	0.08 0.08 0.08 0.08 LOWED PE WTPH-G) (1 D) (NWTPH- ) (TSS) (B( ) (Total Kiec unide) (Free ( Ba) (Be) (Ca) 0 (Ba) (Be) (Ca)	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WTPH-GX) -DX) (TPH-I DD) (Turbid lahl Nitrogen) Cyanide) 0 (Cd) (Co)	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (i ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	plicable or write n 8141) (Oil & Grea (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	se) 1) (SO4) (NO3 i) (Ag) (Se) (T	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR  (K) (Na)
Duplicate Sample No(s): Comments:	4 Average: QUANTITY 5	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	342.2 342.4 342.6 342.6 342.4 NALYSIS AL 0) (8020) (N 1) (NWTPH-I activity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (I etals) (As) (Sb) g short list)	0.08 0.08 0.08 0.08 LOWED PE WTPH-G) (1 D) (NWTPH- ) (TSS) (B( ) (Total Kiec unide) (Free ( Ba) (Be) (Ca) 0 (Ba) (Be) (Ca)	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WTPH-GX) -DX) (TPH-I DD) (Turbid lahl Nitrogen) Cyanide) 0 (Cd) (Co)	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (i ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	plicable or write n 8141) (Oil & Grea (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	se) 1) (SO4) (NO3 i) (Ag) (Se) (T	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR  (K) (Na)
Duplicate Sample No(s): Comments:	4 Average: QUANTITY 5	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	342.2 342.4 342.6 342.6 342.4 NALYSIS AL 0) (8020) (N 1) (NWTPH-I activity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (I etals) (As) (Sb) g short list)	0.08 0.08 0.08 0.08 LOWED PE WTPH-G) (1 D) (NWTPH- ) (TSS) (B( ) (Total Kiec unide) (Free ( Ba) (Be) (Ca) 0 (Ba) (Be) (Ca)	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WTPH-GX) -DX) (TPH-I DD) (Turbid lahl Nitrogen) Cyanide) 0 (Cd) (Co)	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (i ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	plicable or write n 8141) (Oil & Grea (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	se) 1) (SO4) (NO3 i) (Ag) (Se) (T	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR  (K) (Na)
Comments:	4 Average: QUANTITY 5	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth Methane Eth	342.2 342.4 342.6 342.6 342.4 NALYSIS AL 0) (8020) (N 1) (NWTPH-I activity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (I etals) (As) (Sb) g short list)	0.08 0.08 0.08 0.08 LOWED PE WTPH-G) (1 D) (NWTPH- ) (TSS) (BC ) (Total Kiec unide) (Free ( Ba) (Be) (Ca) 0 (Ba) (Be) (Ca)	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WTPH-GX) -DX) (TPH-I DD) (Turbid lahl Nitrogen) Cyanide) 0 (Cd) (Co)	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (i ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	plicable or write n 8141) (Oil & Grea (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	se) 1) (SO4) (NO3 i) (Ag) (Se) (T	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR  (K) (Na)
	4 Average: QUANTITY 5 1	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth VOC (Boein Methane Eth	342.2 342.4 342.6 342.6 342.4 NALYSIS AL 0) (8020) (N 1) (NWTPH-I activity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (I etals) (As) (Sb) g short list)	0.08 0.08 0.08 0.08 LOWED PE WTPH-G) (1 D) (NWTPH- ) (TSS) (BC ) (Total Kiec unide) (Free ( Ba) (Be) (Ca) 0 (Ba) (Be) (Ca)	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WTPH-GX) -DX) (TPH-I DD) (Turbid lahl Nitrogen) Cyanide) 0 (Cd) (Co)	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (i ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	plicable or write n 8141) (Oil & Grea (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	se) 1) (SO4) (NO3 i) (Ag) (Se) (T	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR  (K) (Na)
Signature: SRB Date: 8/14/2018	4 Average: QUANTITY 5 1	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth VOC (Boein Methane Eth	342.2 342.4 342.6 342.6 342.4 NALYSIS AL 0) (8020) (N 1) (NWTPH-I activity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (I etals) (As) (Sb) g short list)	0.08 0.08 0.08 0.08 LOWED PE WTPH-G) (1 D) (NWTPH- ) (TSS) (BC ) (Total Kiec unide) (Free ( Ba) (Be) (Ca) 0 (Ba) (Be) (Ca)	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WTPH-GX) -DX) (TPH-I DD) (Turbid lahl Nitrogen) Cyanide) 0 (Cd) (Co)	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (i ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	plicable or write n 8141) (Oil & Grea (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	se) 1) (SO4) (NO3 i) (Ag) (Se) (T	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR  (K) (Na)
	4 Average: QUANTITY 5 1	24.5 24.5 24.5 <b>TYPICAL A</b> (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals) (Dis	342.2 342.4 342.6 342.6 342.4 NALYSIS AL 0) (8020) (N 1) (NWTPH-I activity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (I etals) (As) (Sb) g short list)	0.08 0.08 0.08 0.08 LOWED PE WTPH-G) (1 D) (NWTPH- ) (TSS) (BC ) (Total Kiec unide) (Free ( Ba) (Be) (Ca) 0 (Ba) (Be) (Ca)	6.35 6.35 6.35 6.35 <b>R BOTTLE</b> WTPH-GX) -DX) (TPH-I DD) (Turbid lahl Nitrogen) Cyanide) 0 (Cd) (Co)	4.7 4.8 4.2 4.7 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (i ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	plicable or write n 8141) (Oil & Grea (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	se) ) (SO4) (NO3 i) (Ag) (Se) (T Ag) (Se) (Tl) (V)	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR  (K) (Na)



Project Nam	e:	Boeing Rent	on		Project Number	r:	0025217.099.0	99	
Event:		Quarterly Au	1gust 2018		Date/Time:	8/ 14 /2018@	1530		
Sample Num	nber:	RGW039S-	180814		Weather:	70S SMOKY			
Landau Repr	resentative:	SRB							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Conditio	on:	Secure (YES)		Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	5.22	Time:	1445	Flow through cel	l vol.		GW Meter No.(s	HERON3
Begin Purge:	Date/Time:	8/14 /2018	1500	End Purge:	Date/Time:	8/ 14 /2018 @	1324	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°Ĉ)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	ils: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	llowing limits < 0.3 ft	>/= 1 flow through cell	
1503	24.7	177.0	0.19	6.21		LOW	5.22	thi ough cen	
-						LOW	·		
1306	24.6	178.4	0.20	6.21	21.1		5.22		
1309	24.7	180.0	0.17	6.18	21.6		5.22		
1312	24.6	184.5	0.14	6.19	20.0				
1315	24.4	187.9	0.16	6.19	19.2				
1318	24.5	191.3	0.13	6.19	17.8				
1321	24.4	194.2	0.15	6.20	16.4				
SAMPLE CO	LLECTION D								
Sample Collec	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	1 🗖	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	lure:	Alconox Was	h 🗍	Tap Rinse	DI Water	Dedicated			
(By Numerica	ıl Order)	Other							
	<i>,</i>								
Sample Descr	<i>,</i>		sheen, etc.):	slightly yello	w and turbid no/n	S	-		
Sample Descr Replicate	<i>,</i>		sheen, etc.):	slightly yello pH	w and turbid no/ns	s Turbidity	DTW	Ferrous iron	Comments/
	ription (color, t	urbidity, odor,	-				DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	iption (color, t Temp	urbidity, odor,	D.O.		ORP	Turbidity			
Replicate	iption (color, t Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity			
Replicate	Temp (°F/°C) 24.4	urbidity, odor, Cond. (uS/cm) 194.0	D.O. (mg/L) 0.11	<b>рН</b> 6.20	ORP (mV) 15.8	Turbidity			
Replicate 1 2	<b>Temp</b> (°F/°C) 24.4 24.5	Cond. (uS/cm) 194.0 195.9	<b>D.O.</b> (mg/L) 0.11 0.14	рН 6.20 6.22	ORP (mV) 	Turbidity			
Replicate 1 2 3 4	Temp           (°F/°C)           24.4           24.5           24.5	Cond. (uS/cm) 194.0 195.9 195.9	D.O. (mg/L) 0.11 0.14 0.13	рН 6.20 6.22 6.21	ORP (mV) 15.8 15.0 14.9	Turbidity			
Replicate 1 2 3 4 Average:	Temp           (°F/°C)           24.4           24.5           24.5           24.5           24.5           24.5	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13	<b>pH</b> 6.20 6.22 6.21 6.21 6.21 6.21	ORP (mV) 15.8 15.0 14.9 15.2 15.2	Turbidity (NTU) 	(ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 7YPICAL A	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 LOWED PE	pH 6.20 6.22 6.21 6.21 6.21 6.21 8.BOTTLE	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp           (°F/°C)           24.4           24.5           24.5           24.5           24.5           24.5           24.5           24.5           24.5           24.5           24.5           24.5           24.5           24.5           24.5           24.5           24.5	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 LOWED PE WTPH-G) (1	pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-Gx)	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0! plicable or write r	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N I) (NWTPH-E	D.O. (mg/L) 0.11 0.13 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 D) (NWTPH	pH 6.20 6.22 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -Dx) (TPH-I	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (5	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N 1) (NWTPH-E ctivity) (TDS	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (Be	pH 6.20 6.22 6.21 6.21 6.21 6.21 8.21 8.21 8.21 8.21 7.21 7.21 7.21 7.21 7.21 7.21 7.21 7	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (5	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N 1) (NWTPH-E ctivity) (TDS	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (Be ) (Total Kiee	pH 6.20 6.22 6.21 6.21 6.21 6.21 7.21 7.21 7.21 7.21 7.21 7.21 7.21 7	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (i ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N 1) (NWTPH-E ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (E	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B0 ) (Total Kiec unide) (Free Ba) (Be) (Ca	pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5 (8260) (8010 (8270) (PAH (PH) (Condu (COD) (TOC (Total Cyanid (Dissolved M.	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N I) (NWTPH-E ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb)	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B0 ) (Total Kiec unide) (Free Ba) (Be) (Ca	pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5 (8260) (8010 (8270) (PAH (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5 (8260) (8010 (8270) (PAH (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N I) (NWTPH-E ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb)	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5 (8260) (8010 (8270) (PAH (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5 (8260) (8010 (8270) (PAH (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 </td <td>Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5</td> <td>Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)</td> <td>D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal</td> <td>pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)</td> <td>ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I</td> <td>Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil &amp; Greating (Oil &amp; Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N</td> <td>(ft) </td> <td>(Fe II)</td> <td>Observations</td>	Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 </td <td>Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5</td> <td>Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)</td> <td>D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal</td> <td>pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)</td> <td>ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I</td> <td>Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil &amp; Greating (Oil &amp; Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N</td> <td>(ft) </td> <td>(Fe II)</td> <td>Observations</td>	Temp (°F/°C) 24.4 24.5 24.5 24.5 24.5 24.5 24.5 24.5	Cond. (uS/cm) 194.0 195.9 195.9 195.8 195.4 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.11 0.14 0.13 0.13 0.13 0.13 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.20 6.22 6.21 6.21 6.21 6.21 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 15.8 15.0 14.9 15.2 15.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations



Project Name	e:	Boeing Rent	on		Project Number	r:	0025217.099.0	99	
Event:		Quarterly Au	igust 2018		Date/Time:	8/ 14 /2018@	1430		
Sample Num	ber:	RGW143S-	180814		Weather:	70S SMOKY			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	n:	Secure (YES)		Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	5.79	Time:	1345	Flow through cel	l vol.		GW Meter No.(s	HERON3
Begin Purge:	Date/Time:	8/14 /2018	1400	End Purge:	Date/Time:	8/ 14 /2018 @	1424	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)	•	(mV)	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
	Purge Goa +/- 3%	ils: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	< 0.3 ft	>/= 1 flow through cell	
1403	23.3	303.5	0.83	6.32		LOW	5.80	···· · · · g · · · · ·	
1406	24.0	317.1	0.48	6.33					
1409	24.2	322.0	0.40	6.33	0.4		5.80		
1412	24.2	323.1	0.36	6.34	-1.1		·		
1415	24.2	323.9	0.32	6.34	-1.5				
1418	24.2	325.5	0.29	6.34	-1.4				
1421	24.2	326.7	0.27	6.32	-1.7				
SAMPLE CO	LLECTION D	DATA							
Sample Collec	eted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Steel	I 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	n 🗋	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
	,								
	,		sheen, etc.):	CLEAR WIT	H ORANGE PAI	RTICULATES NO	/NS		
Sample Descr	,		sheen, etc.):	CLEAR WII	TH ORANGE PAI		/NS DTW	Ferrous iron	Comments/
	iption (color, t	urbidity, odor,	-			RTICULATES NO Turbidity (NTU)		Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t Temp	Cond.	D.O.		ORP	Turbidity	DTW		
Sample Descri	iption (color, t Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	iption (color, t Temp (°F/°C) 24.2 24.2	Cond. (uS/cm) 327.0	D.O. (mg/L) 0.28 0.27	рН 6.33 6.33	ORP (mV) -2.1 -2.3	Turbidity (NTU)	DTW (ft)		
Sample Descri Replicate	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.2	Cond. (uS/cm) 327.0 327.2 327.0	D.O. (mg/L) 0.28 0.27 0.30	рН 6.33 6.33 6.32	ORP (mV) -2.1 -2.3 -1.9	Turbidity (NTU)	DTW		
Sample Descr Replicate 1 2 3 4	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.2 24.1	Cond.           (uS/cm)           327.0           327.2           327.0           327.2           327.4	D.O. (mg/L) 0.28 0.27 0.30 0.27	<b>pH</b> 6.33 6.33 6.32 6.32	ORP (mV) -2.1 -2.3 -1.9 -2.4	Turbidity (NTU)	DTW (ft)		
Sample Descr Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.2 24.1 24.2	Cond. (uS/cm) 327.0 327.2 327.0 327.0 327.4 327.2	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28	<b>pH</b> 6.33 6.33 6.32 6.32 6.32 6.33	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2	Turbidity (NTU) 	DTW (ft)	(Fe II)	
Sample Descr Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.2 24.1 24.2 24.1 24.2 TYPICAL A	Cond. (uS/cm) 327.0 327.2 327.0 327.4 327.4 327.2 NALYSIS AL	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE	pH 6.33 6.33 6.32 6.32 6.32 6.33 R BOTTLE	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Sample Descr Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.2 24.1 24.2 24.1 24.2 TYPICAL A (8260) (8010	Cond. (uS/cm) 327.0 327.2 327.0 327.4 327.4 327.2 NALYSIS AL D) (8020) (N	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1	pH 6.33 6.33 6.32 6.32 6.32 6.33 <b>R BOTTLE</b> NWTPH-Gx)	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0! plicable or write r	DTW (ft)	(Fe II)	Observations
Sample Descr Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 (°F/°C) 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2	Cond. (uS/cm) 327.0 327.2 327.0 327.2 327.4 327.2 NALYSIS AL 0) (8020) (N' H) (NWTPH-E	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH	pH 6.33 6.32 6.32 6.33 R BOTTLE NWTPH-Gx) -Dx) (TPH-I	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (3	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea	DTW (ft)	(Fe II)	Observations
Sample Descr Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 (°F/°C) 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2	Cond.           (uS/cm)           327.0           327.2           327.0           327.2           327.4           327.2           NALYSIS AL           D) (8020) (N'           H) (NWTPH-E           ictivity) (TDS)	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be	pH 6.33 6.32 6.32 6.33 8 BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (3	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5	Temp           (°F/°C)           24.2           24.2           24.2           24.2           24.2           24.2           24.2           24.2           24.2           24.2           24.1           24.2           (8260)           (8010)           (8270)         (PAH)           (PH)         (Condu           (COD)         (TOC)	Cond.           (uS/cm)           327.0           327.2           327.0           327.2           327.4           327.2           NALYSIS AL           D) (8020) (N'           H) (NWTPH-E           ictivity) (TDS)	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH 0) (TSS) (Be 0) (Total Kiee	pH 6.33 6.32 6.32 6.32 6.33 <b>R BOTTLE</b> NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen)	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (i ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           24.2           24.2           24.2           24.2           24.1           24.2           24.1           24.2           (8260)           (8010)           (8270)           (PAH)           (COD)           (TOC)           (Total Cyanid)	Cond.           (uS/cm)           327.0           327.2           327.2           327.4           327.2           327.4           327.2           NALYSIS AL           0) (8020) (N'           1) (NWTPH-L           Incitivity) (TDS)           C) (Total PO4)           e) (WAD Cyanolical Science)	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH 0) (TSS) (Be 0) (Total Kiece nide) (Free 6	pH 6.33 6.32 6.32 6.32 6.32 6.33 <b>R BOTTLE</b> NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen) Cyanide)	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (( ity) (Alkalinity) ) (NH3) (NO3/I)	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations Observations OR
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.1 24.2 24.1 24.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 327.0 327.2 327.0 327.4 327.4 327.4 327.2 NALYSIS AL 0) (8020) (N' H) (NWTPH-E activity) (TDS C) (Total PO4) e) (WAD Cya 0) (As) (Sb) (B	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH 0) (TSS) (B0 0) (Total Kiec nide) (Free a) (Be) (Ca	pH 6.33 6.32 6.32 6.32 6.32 6.33 <b>R BOTTLE</b> NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations Observations OR
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.2 24.2 24.1 24.2 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 327.0 327.2 327.0 327.2 327.0 327.4 327.2 NALYSIS AL 0) (8020) (N' H) (NWTPH-E uctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (B etals) (As) (Sb) g short list)	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH 0) (TSS) (Be 0) (Total Kiec nide) (Free a) (Be) (Ca (Ba) (Be) (Ca	pH 6.33 6.32 6.32 6.32 6.32 6.33 <b>R BOTTLE</b> NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.2 24.2 24.1 24.2 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 327.0 327.2 327.0 327.4 327.4 327.2 NALYSIS AL 0) (8020) (N' H) (NWTPH-E ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (B etals) (As) (Sb)	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH 0) (TSS) (Be 0) (Total Kiec nide) (Free a) (Be) (Ca (Ba) (Be) (Ca	pH 6.33 6.32 6.32 6.32 6.32 6.33 <b>R BOTTLE</b> NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.2 24.2 24.1 24.2 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 327.0 327.2 327.0 327.2 327.0 327.4 327.2 NALYSIS AL 0) (8020) (N' H) (NWTPH-E uctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (B etals) (As) (Sb) g short list)	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH 0) (TSS) (Be 0) (Total Kiec nide) (Free a) (Be) (Ca (Ba) (Be) (Ca	pH 6.33 6.32 6.32 6.32 6.32 6.33 <b>R BOTTLE</b> NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	iption (color, t Temp (°F/°C) 24.2 24.2 24.2 24.1 24.2 24.1 24.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth	Cond. (uS/cm) 327.0 327.2 327.0 327.2 327.0 327.4 327.2 NALYSIS AL 0) (8020) (N' H) (NWTPH-E uctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (B etals) (As) (Sb) g short list)	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH 0) (TSS) (Be 0) (Total Kiec nide) (Free a) (Be) (Ca (Ba) (Be) (Ca	pH 6.33 6.32 6.32 6.32 6.32 6.33 <b>R BOTTLE</b> NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C) 24.2 24.2 24.2 24.2 24.1 24.2 24.1 24.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth Woth (Boein Methane Eth	Cond. (uS/cm) 327.0 327.2 327.0 327.2 327.0 327.4 327.2 NALYSIS AL 0) (8020) (N' H) (NWTPH-E uctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (B etals) (As) (Sb) g short list)	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH 0) (TSS) (Be 0) (Total Kiec nide) (Free a) (Be) (Ca (Ba) (Be) (Ca	pH 6.33 6.32 6.32 6.32 6.32 6.33 <b>R BOTTLE</b> NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C) 24.2 24.2 24.2 24.2 24.1 24.2 24.1 24.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth Woth (Boein Methane Eth	Cond. (uS/cm) 327.0 327.2 327.0 327.2 327.0 327.4 327.2 NALYSIS AL 0) (8020) (N' H) (NWTPH-E uctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (B etals) (As) (Sb) g short list)	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH 0) (TSS) (Be 0) (Total Kiec nide) (Free a) (Be) (Ca (Ba) (Be) (Ca	pH 6.33 6.32 6.32 6.32 6.32 6.33 <b>R BOTTLE</b> NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C) 24.2 24.2 24.2 24.2 24.1 24.2 24.1 24.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth Woth (Boein Methane Eth	Cond. (uS/cm) 327.0 327.2 327.0 327.2 327.0 327.4 327.2 NALYSIS AL 0) (8020) (N' H) (NWTPH-E uctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (B etals) (As) (Sb) g short list)	D.O. (mg/L) 0.28 0.27 0.30 0.27 0.28 LOWED PE WTPH-G) (1 0) (NWTPH 0) (TSS) (Be 0) (Total Kiec nide) (Free a) (Be) (Ca (Ba) (Be) (Ca	pH 6.33 6.32 6.32 6.32 6.32 6.33 <b>R BOTTLE</b> NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -2.1 -2.3 -1.9 -2.4 -2.2 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations



Project Name	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 14 /2018@	1300		
Sample Num	ber:	RGW209S-	180814		Weather:	70S SMOKY			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	RGE DATA							
Well Condition	n:	Secure (YES)	)	Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	5.35	Time:	1215	Flow through cel	l vol.		GW Meter No.(s	HERON3
Begin Purge:	Date/Time:	8/14 /2018	1230	End Purge:	Date/Time:	8/ 14 /2018 @	1240	Gallons Purged:	0.25
Purge water di	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	lls: Stablizatio +/- 3%	n of Parame +/- 10%	ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	llowing limits < 0.3 ft	>/= 1 flow through cell	
1233	24.8	399.3	0.20	6.26		LOW	5.38	thi ough cen	
						LOW			
1236	24.9	400.8	0.18	6.29	13.2		5.38		
1239	25.0	401.6	0.20	6.31	11.4		5.38		
SAMPLE CO	LLECTION D	ATA	<u> </u>						
Sample Collec	ted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	ı 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procedu	ure:	Alconox Was	h 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerical	l Order)	Other							
Sample Descri	iption (color, t	urbidity, odor,	sheen, etc.):	SLIGHTLY	YELLOW CLEAI	R NO/NS			
		-	-				DTW	Ferrous iron	Comments/
Sample Descri Replicate	Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	b.O. (mg/L)	SLIGHTLY pH	YELLOW CLEAI	R NO/NS Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	Temp	Cond.	D.O.		ORP	Turbidity			
Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 25.1	<b>Cond.</b> ( <b>uS/cm</b> ) 401.9	D.O. (mg/L) 0.18	<b>рН</b> 6.31	ORP (mV) 10.9	Turbidity			
Replicate 1 2	Temp           (°F/°C)           25.1           25.1	Cond. (uS/cm) 401.9 402.0	D.O. (mg/L) 0.18 0.18	<b>pH</b> 6.31 6.32	ORP (mV) 	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 25.1 25.1 25.3	Cond. (uS/cm) 401.9 402.0 403.3	D.O. (mg/L) 0.18 0.18 0.18	рН 6.31 6.32 6.32	ORP (mV) 10.9 10.4 9.9	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C)           25.1           25.3           25.3	Cond. (uS/cm) 401.9 402.0 403.3 402.8	D.O. (mg/L) 0.18 0.18 0.18 0.19	<b>pH</b> 6.31 6.32 6.32 6.32	ORP (mV) 10.9 10.4 9.9 9.4	Turbidity (NTU)			
Replicate 1 2 3 4 Average:	Temp (°F/°C)           25.1           25.3           25.3           25.2	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18	<b>pH</b> 6.31 6.32 6.32 6.32 6.32	ORP (mV) 10.9 10.4 9.9 9.4 10.2	Turbidity (NTU) 	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C)           25.1           25.3           25.3           25.2	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18	<b>pH</b> 6.31 6.32 6.32 6.32 6.32	ORP (mV) 10.9 10.4 9.9 9.4 10.2	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           25.1           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) ((	pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx)	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0! plicable or write n	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           25.1           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH	pH 6.31 6.32 6.32 6.32 6.32 8.80TTLE NWTPH-GX) -Dx) (TPH-	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) (	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           25.1           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (Condu	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B	pH 6.31 6.32 6.32 6.32 6.32 6.32 <b>R BOTTLE</b> NWTPH-GX) -DX) (TPH-I OD) (Turbid	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           5           1           1	Temp (°F/°C)           25.1           25.3           25.3           25.2           TYPICAL A           (8260)         (8010)           (8270)         (PAH)           (PH)         (Condu           (COD)         (TOC	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B <sup>1</sup> ) (Total Kiee	pH <u>6.31</u> <u>6.32</u> <u>6.32</u> <u>6.32</u> <u>6.32</u> <u>6.32</u> <u>6.32</u> <u>7.1000000000000000000000000000000000000</u>	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) (	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           5           1           1           1	Temp (°F/°C)           25.1           25.3           25.3           25.2           TYPICAL A           (8260)           (8270)           (PAH)           (COD)           (Total Cyanid)	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cyst	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (Br ) (Total Kiece nnide) (Free	pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -DX) (TPH-I OD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (CI	(ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           5           1           1           1	Temp (°F/°C)           25.1           25.3           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (COD)           (Total Cyanid)           (Total Metals)	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (R	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B <sup>1</sup> ) ) (Total Kiec anide) (Free 3a) (Be) (Ca	pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (CI NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an se) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           5           1           1           1	Temp (°F/°C)           25.1           25.3           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (COD)           (Total Cyanid)           (Total Metals)	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-1 ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (R etals) (As) (Sb)	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B <sup>1</sup> ) ) (Total Kiec anide) (Free 3a) (Be) (Ca	pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (CI NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an se) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1	Temp (°F/°C)           25.1           25.3           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-1 ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (R etals) (As) (Sb)	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B4 ) (Total Kiec nide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (CI NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an se) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           5           1           1           1	Temp (°F/°C)           25.1           25.3           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (F etals) (As) (Sb)	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B4 ) (Total Kiec nide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (CI NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an se) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           25.1           25.3           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAF)           (PH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Methane Ethane)	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (F etals) (As) (Sb)	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B4 ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (CI NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an se) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           5           1           1           1           1	Temp (°F/°C)           25.1           25.3           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (F etals) (As) (Sb)	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B4 ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (CI NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an se) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           5           1           1           1           1	Temp (°F/°C)           25.1           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Ma           VOC (Boein)           Methane Eth           others	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (F etals) (As) (Sb)	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B4 ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (CI NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an se) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 </td <td>Temp (°F/°C)           25.1           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Ma           VOC (Boein)           Methane Eth           others</td> <td>Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (F etals) (As) (Sb)</td> <td>D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B4 ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca</td> <td>pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)</td> <td>ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I</td> <td>Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil &amp; Grea (HCO3/CO3) (CI NO2) Pb) (Mg) (Mn) (N</td> <td>(ft) on-standard an se) (SO4) (NO3 i) (Ag) (Se) (T</td> <td>(Fe II)</td> <td>Observations</td>	Temp (°F/°C)           25.1           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Ma           VOC (Boein)           Methane Eth           others	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (F etals) (As) (Sb)	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B4 ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (CI NO2) Pb) (Mg) (Mn) (N	(ft) on-standard an se) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         0         1         0         1         0         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td>Temp (°F/°C)           25.1           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Ma           VOC (Boein)           Methane Eth           others</td> <td>Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (F etals) (As) (Sb)</td> <td>D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B4 ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca</td> <td>pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)</td> <td>ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I</td> <td>Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil &amp; Grea (HCO3/CO3) (CI NO2) Pb) (Mg) (Mn) (N</td> <td>(ft) </td> <td>(Fe II)</td> <td>Observations</td>	Temp (°F/°C)           25.1           25.3           25.3           25.2           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Ma           VOC (Boein)           Methane Eth           others	Cond. (uS/cm) 401.9 402.0 403.3 402.8 402.5 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (F etals) (As) (Sb)	D.O. (mg/L) 0.18 0.18 0.18 0.19 0.18 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B4 ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.31 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 10.9 10.4 9.9 9.4 10.2 TYPE (Circle ap (BTEX) HCID) (8081) ( ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (CI NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations



_	ne:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 14 /2018@	1158		
Sample Nun	nber:	RGW210S-	180814		Weather:	HAZY, 80S			
Landau Rep	resentative:	CEB			-				
WATER LEV	VEL/WELL/PU	JRGE DATA							
Well Condition	on:	Secure (YES)	)	Damaged (N	0)	Describe:	_		
DTW Before	Purging (ft)	5.13	Time:	1126	Flow through cel	l vol.		GW Meter No.(s	1
Begin Purge:	Date/Time:	8/14 /2018	1128	End Purge:	Date/Time:	8/14 /2018 @	1151	Gallons Purged:	0.25
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)	-	(mV)	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units	consecutive read +/- 10 mV	dings within the fo +/- 10%	ollowing limits < 0.3 ft	>/= 1 flow through cell	
1131		304.2	0.92	6.34		HIGH	5.17	thi ough cen	
						піоп			
1134		309.4	0.57	6.28	89.9		5.18		
1137	24.5	237.9	0.38	6.37	79.0		5.18		
1140	24.8	337.1	0.31	6.39	74.6				
1143	25.0	249.3	0.27	6.39	71.2				
1146	25.2	257.0	0.21	6.39	66.9				
1148	25.3	362.9	0.19	6.39	64.5				
SAMPLE CC	DLLECTION E	DATA						·	
Sample Colle	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proceed	lure:	Alconox Was	h 🔲	Tap Rinse	DI Water	Dedicated		X	
(By Numerica	ıl Order)	Other							
Sample Desci	ription (color, t	urbidity, odor,	sheen, etc.):	YELLOWIS	H, HIGHLY TUR	BID WITH ORAN	IGE PARTICUL	ATES, NO/NS	
Replicate	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	(°F/°C)	(uS/cm)	(mg/L)	pm	(mV)	(NTU)	(ft)	(Fe II)	Observations
1	25.3	364.6	0.18	6.39					
2	25.3				63.9				
2		365.7	0.17		<u>63.9</u>				
2		365.7	0.17	6.39	63.4				
3	25.4	366.1	0.16	6.39 6.38	63.4 63.00				
3 4	25.4 25.4	<u>366.1</u> 366.8	0.16 0.17	6.39 6.38 6.38	63.4 63.00 62.6				
	25.4	366.1	0.16	6.39 6.38	63.4 63.00	#DIV/0!			
4 Average:	25.4 25.4 25.4	<u>366.1</u> 366.8 365.8	0.16 0.17 0.17	6.39 6.38 6.38 6.39	63.4 63.00 62.6 63.2	#DIV/0!	non-standard ar		
4 Average:	25.4 25.4 25.4 <b>TYPICAL A</b> (8260) (8010	<u>366.1</u> 366.8 365.8 NALYSIS AI 0) (8020) (N	0.16 0.17 0.17 LOWED PE WTPH-G) (	6.39 6.38 6.38 6.39 CR BOTTLE NWTPH-Gx)	63.4 63.00 62.6 63.2 <b>TYPE (Circle ap</b> (BTEX)	plicable or write		WA 🗆	OR
4 Average: QUANTITY	25.4 25.4 25.4 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF	<u>366.1</u> <u>366.8</u> <u>365.8</u> NALYSIS AI D) (8020) (N H) (NWTPH-	0.16 0.17 0.17 LOWED PE WTPH-G) ( D) (NWTPH	6.39 6.38 6.38 6.39 <b>CR BOTTLE</b> NWTPH-GX) I-DX) (TPH-	63.4 63.00 62.6 63.2 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (	(8141) (Oil & Gre	ase)	WA 🗆 WA 🗆	OR  OR  OR
4 Average: QUANTITY 5	25.4 25.4 25.4 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu	<u>366.1</u> <u>366.8</u> <u>365.8</u> <u>NALYSIS AI</u> <u>(NWTPH-1</u> (NWTPH-1 nctivity) (TDS	0.16 0.17 0.17 LOWED PE WTPH-G) ( D) (NWTPH G) (TSS) (B	6.39 6.38 6.38 6.39 CR BOTTLE NWTPH-Gx) I-Dx) (TPH- OD) (Turbic	63.4 63.00 62.6 63.2 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) ( lity) (Alkalinity)	(8141) (Oil & Gre (HCO3/CO3) (0	ase)	WA 🗆 WA 🗆	
4 Average: QUANTITY	25.4 25.4 25.4 <b>TYPICAL A</b> (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOO	<u>366.1</u> <u>366.8</u> <u>365.8</u> <b>NALYSIS AI</b> D) (8020) (N H) (NWTPH-1 Inctivity) (TDS C) (Total PO-	0.16 0.17 0.17 LOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B S) (TSS) (B	6.39 6.38 6.38 6.39 <b>CR BOTTLE</b> <b>NWTPH-GX</b> I-DX) (TPH- OD) (Turbic dahl Nitrogen	63.4 63.00 62.6 63.2 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (	(8141) (Oil & Gre (HCO3/CO3) (0	ase)	WA 🗆 WA 🗆	
4 Average: QUANTITY 5	25.4 25.4 25.4 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanid	<u>366.1</u> <u>366.8</u> <u>365.8</u> <u>NALYSIS AI</u> )) (8020) (N I) (NWTPH- ictivity) (TDS C) (Total PO- le) (WAD Cy	0.16 0.17 0.17 LOWED PE WTPH-G) ( D) (NWTPH C) (TSS) (B C) (TSS) (B C) (Total Kie anide) (Free	6.39 6.38 6.39 <b>CR BOTTLE</b> <b>NWTPH-GX</b> I-DX) (TPH- OD) (Turbic dahl Nitrogen Cyanide)	63.4 63.00 62.6 63.2 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) ( lity) (Alkalinity) ) (NH3) (NO3/	(8141) (Oil & Gre (HCO3/CO3) (C NO2)	ase) Cl) (SO4) (NO	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR 🗆
4 Average: QUANTITY 5	25.4 25.4 25.4 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals	366.1 365.8 365.8 365.8 365.8 365.8 (NALYSIS AI (NWTPH-] activity) (TDS (NWTPH-] activity) (TDS () (Total PO4 () (VAD Cy () (As) (Sb) ()	0.16 0.17 0.17 LOWED PE WTPH-G) ( D) (NWTPH G) (TSS) (B G) (TSS) (B G) (Total Kie anide) (Free Ba) (Be) (Ca	6.39 6.38 6.38 6.39 <b>CR BOTTLE</b> <b>NWTPH-GX</b> ) (-Dx) (TPH- OD) (Turbid dahl Nitrogen Cyanide) )) (Cd) (Co)	63.4 63.00 62.6 63.2 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) ( lity) (Alkalinity) ) (NH3) (NO3/ (Cr) (Cu) (Fe) (	pplicable or write           (8141)         (Oil & Gre           (HCO3/CO3)         (O           NO2)         Pb)         (Mg)         (Mn)         (I	ase) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR
4 Average: QUANTITY 5	25.4 25.4 25.4 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals	366.1 366.8 365.8 NALYSIS AL 0) (8020) (N d) (NWTPH-1 activity) (TDS C) (Total PO-2 le) (WAD Cy 1) (As) (Sb) (1 etals) (As) (Sb)	0.16 0.17 0.17 LOWED PE WTPH-G) ( D) (NWTPH G) (TSS) (B G) (TSS) (B G) (Total Kie anide) (Free Ba) (Be) (Ca	6.39 6.38 6.38 6.39 <b>CR BOTTLE</b> <b>NWTPH-GX</b> ) (-Dx) (TPH- OD) (Turbid dahl Nitrogen Cyanide) )) (Cd) (Co)	63.4 63.00 62.6 63.2 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) ( lity) (Alkalinity) ) (NH3) (NO3/ (Cr) (Cu) (Fe) (	pplicable or write           (8141)         (Oil & Gre           (HCO3/CO3)         (O           NO2)         Pb)         (Mg)         (Mn)         (I	ase) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR 🗆
4 Average: QUANTITY 5	25.4 25.4 25.4 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	366.1 366.8 365.8 NALYSIS AL 0) (8020) (N d) (NWTPH-1 activity) (TDS C) (Total PO-2 le) (WAD Cy 1) (As) (Sb) (1 etals) (As) (Sb)	0.16 0.17 0.17 <b>LOWED PE</b> WTPH-G) ( D) (NWTPH G) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.39 6.38 6.38 6.39 <b>CR BOTTLE</b> <b>NWTPH-GX</b> ) (-Dx) (TPH- OD) (Turbid dahl Nitrogen Cyanide) )) (Cd) (Co)	63.4 63.00 62.6 63.2 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) ( lity) (Alkalinity) ) (NH3) (NO3/ (Cr) (Cu) (Fe) (	pplicable or write           (8141)         (Oil & Gre           (HCO3/CO3)         (O           NO2)         Pb)         (Mg)         (Mn)         (I	ase) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR
4 Average: QUANTITY 5	25.4 25.4 25.4 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	366.1 366.8 365.8 NALYSIS AI 0) (8020) (N 1) (NWTPH- 1) (NWTPH- 1) (TDS C) (Total PO- 4) (WAD Cy 1) (As) (Sb) (1) etals) (As) (Sb) g short list)	0.16 0.17 0.17 <b>LOWED PE</b> WTPH-G) ( D) (NWTPH G) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.39 6.38 6.38 6.39 <b>CR BOTTLE</b> <b>NWTPH-Gx</b> ) (-Dx) (TPH- OD) (Turbid dahl Nitrogen Cyanide) )) (Cd) (Co)	63.4 63.00 62.6 63.2 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) ( lity) (Alkalinity) ) (NH3) (NO3/ (Cr) (Cu) (Fe) (	pplicable or write           (8141)         (Oil & Gre           (HCO3/CO3)         (O           NO2)         Pb)         (Mg)         (Mn)         (I	ase) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR
4 Average: QUANTITY 5	25.4 25.4 25.4 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	366.1 366.8 365.8 NALYSIS AI 0) (8020) (N 1) (NWTPH- 1) (NWTPH- 1) (TDS C) (Total PO- 4) (WAD Cy 1) (As) (Sb) (1) etals) (As) (Sb) g short list)	0.16 0.17 0.17 <b>LOWED PE</b> WTPH-G) ( D) (NWTPH G) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.39 6.38 6.38 6.39 <b>CR BOTTLE</b> <b>NWTPH-Gx</b> ) (-Dx) (TPH- OD) (Turbid dahl Nitrogen Cyanide) )) (Cd) (Co)	63.4 63.00 62.6 63.2 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) ( lity) (Alkalinity) ) (NH3) (NO3/ (Cr) (Cu) (Fe) (	pplicable or write           (8141)         (Oil & Gre           (HCO3/CO3)         (O           NO2)         Pb)         (Mg)         (Mn)         (I	ase) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA  WA  WA  WA  WA  WA  WA  WA  WA  WA	OR

Duplicate Sample No(s):

Comments:

Signature: CEB



Project Nam	e:	Boeing Rent	on		Project Number	r:	0025217.099.0	99	
Event:		Quarterly Au	1gust 2018		Date/Time:	8/ 14 /2018@	1155		
Sample Num	nber:	RGW237S-	180814		Weather:	70S SMOKY			
Landau Repr	resentative:	SRB							
WATER LEV	EL/WELL/PU	<b>IRGE DATA</b>							
Well Conditio	n:	Secure (YES)		Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	4.89	Time:	1122	Flow through cel	l vol.		GW Meter No.(s	HERON3
Begin Purge:	Date/Time:	8/14 /2018	1125	End Purge:	Date/Time:	8/ 14 /2018 @	1148	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	ils: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	< 0.3 ft	>/= 1 flow through cell	
1128	20.5	318.2	1.14	6.61		LOW	4.89	• • • <del>g</del> • • • •	
1120	21.8	312.2	0.29	6.35	36.0	2011	4.89		
							·		
1134	21.7	319.9	0.30	6.35	35.6		4.90		
1137	22.0	323.9	0.25	6.35	32.3				
1140	23.0	340.6	0.28	6.40	23.5				
1143	23.0	341.6	0.30	6.39	23.6				
1146	23.2	343.9	0.26	6.40	22.0				
SAMPLE CO	LLECTION D								
Sample Collec	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
C 1 D	,		1		ODI EGG NOMI		<u>.</u>		
Sample Descr	,		sheen, etc.):	CLEAR COI	LORLESS NO/NS		-		
Sample Descr Replicate	iption (color, t Temp		sheen, etc.):	CLEAR COI	ORP	Turbidity	DTW	Ferrous iron	Comments/
	iption (color, t	urbidity, odor,	-				DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	iption (color, t Temp	urbidity, odor,	D.O.		ORP	Turbidity			
Replicate	iption (color, t Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity			
Replicate	iption (color, t Temp (°F/°C) 23.2	urbidity, odor, Cond. (uS/cm) 347.8	D.O. (mg/L) 0.26	<b>рН</b> 6.41	ORP (mV) 21.1	Turbidity			
Replicate 1 2	iption (color, t Temp (°F/°C) 23.2 23.3	Cond. (uS/cm) 347.8 348.0	D.O. (mg/L) 0.26 0.25	<b>pH</b> 6.41 6.41	ORP (mV) 	Turbidity			
Replicate 1 2 3	iption (color, t Temp (°F/°C) 23.2 23.3 23.3	Cond. (uS/cm) 347.8 348.0 347.9	D.O. (mg/L) 0.26 0.25 0.24	<b>pH</b> 6.41 6.41 6.41	ORP (mV) 21.1 20.7 20.4	Turbidity			
Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25	<b>pH</b> 6.41 6.41 6.41 6.40 6.41	ORP (mV) 21.1 20.7 20.4 20.2 20.6	Turbidity (NTU) 	(ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 TYPICAL A	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE	pH 6.41 6.41 6.41 6.40 6.41 R BOTTLE	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 TYPICAL A (8260) (8010	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1	<b>pH</b> 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> <b>NWTPH-G</b> (x)	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0! plicable or write r	(ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 TYPICAL A (8260) (8010 (8270) (PAE	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N I) (NWTPH-I	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 0.25 LOWED PE WTPH-G) (I) 0) (NWTPH	pH 6.41 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> NWTPH-GX) -Dx) (TPH-I	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (5	Turbidity (NTU) 	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 TYPICAL A (8260) (8010 (8270) (PAE	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N 1) (NWTPH-E ctivity) (TDS	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 0.25 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be	pH 6.41 6.41 6.40 6.41 8 BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (5	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 23.3 23.3 1YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL )) (8020) (N' T) (NWTPH-I (ctivity) (TDS C) (Total PO4 e) (WAD Cya	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiece nide) (Free	pH 6.41 6.41 6.40 6.41 R BOTTLE NWTPH-GX) -Dx) (TPH-I DD) (Turbid dahl Nitrogen) Cyanide)	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (i ity) (Alkalinity) ) (NH3) (NO3/1	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C NO2)	(ft)	(Fe II)	Observations Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 TYPICAL A (8260) (8010 (8270) (PAH (9H) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N T) (NWTPH-E ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (E	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B0 ) (Total Kiec unide) (Free Ba) (Be) (Ca	pH 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 TYPICAL A (8260) (8010 (8270) (PAH (9H) (Condu (COD) (TOC (Total Cyanid (Dissolved Metals) (Dissolved Metals)	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N I) (NWTPH-E ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb)	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1 D) (NWTPH ) (TSS) (B0 ) (Total Kiec unide) (Free Ba) (Be) (Ca	pH 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 TYPICAL A (8260) (8010 (8270) (PAH (9H) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 TYPICAL A (8260) (8010 (8270) (PAH (9H) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N I) (NWTPH-E ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb)	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 TYPICAL A (8260) (8010 (8270) (PAH (9H) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 TYPICAL A (8260) (8010 (8270) (PAH (9H) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 </td <td>Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 23.3 23.</td> <td>Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)</td> <td>D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal</td> <td>pH 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)</td> <td>ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I</td> <td>Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil &amp; Greating (Oil &amp; Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N</td> <td>(ft) </td> <td>(Fe II)</td> <td>Observations</td>	Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 23.3 23.	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 23.3 23.	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C) 23.2 23.3 23.3 23.3 23.3 23.3 23.3 23.	Cond. (uS/cm) 347.8 348.0 347.9 351.2 348.7 NALYSIS AL 0) (8020) (N I) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.26 0.25 0.24 0.25 0.25 LOWED PE WTPH-G) (1 0) (NWTPH ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH 6.41 6.41 6.40 6.41 <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 21.1 20.7 20.4 20.2 20.6 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           8141) (Oil & Greating (Oil & Greating (Oil))           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations



Project Name	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 14 /2018@	1230		
Sample Num	nber:	RGW238I-	180814		Weather:	70S SMOKY			
Landau Repr	resentative:	SRB							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Conditio	n:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	4.94	Time:	1150	Flow through cel	l vol.	_	GW Meter No.(s	HERON3
Begin Purge:	Date/Time:	8/14 /2018	1200	End Purge:	Date/Time:	8/ 14 /2018 @	1211	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)	•	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	ils: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	< 0.3 ft	>/= 1 flow through cell	
1203	24.6	480.0	0.13	6.46		LOW	4.94	un ough con	
							·		
1206	25.1	479.0	0.12	6.46	-5.1		4.94		
1209	25.3	478.5	0.13	6.45	-7.4		4.94		
SAMPLE CO	LLECTION D	ATA							. <u></u>
Sample Collec			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was		Tap Rinse	DI Water	Dedicated			
(By Numerica				1	4-1				
		Other							
Sample Descr	,	Uther urbidity, odor,	sheen, etc.):	STARTED S	LIGHTLY GRAY	WITH PARTICU	LATES NO/NS	ENDED CLEAR	COLORLESS NO/NS
Sample Descr	,		sheen, etc.):	STARTED S	LIGHTLY GRAY	WITH PARTICU	LATES NO/NS	ENDED CLEAR	COLORLESS NO/NS
Sample Descr Replicate	iption (color, t Temp	urbidity, odor, Cond.	D.O.	STARTED S	ORP	Turbidity	DTW	Ferrous iron	Comments/
	iption (color, t Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)				
	iption (color, t Temp	urbidity, odor, Cond.	D.O.		ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	iption (color, t Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Replicate	iption (color, t Temp (°F/°C) 25.2	urbidity, odor, Cond. (uS/cm) 478.1	D.O. (mg/L) 0.12	<b>рН</b> 6.45	ORP (mV) -8.0	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2	iption (color, t Temp (°F/°C) 25.2 25.3	Cond. (uS/cm) 478.1 478.0	D.O. (mg/L) 0.12 0.12	рН 6.45 6.45	ORP (mV) 8.0 8.7	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3	Cond. (uS/cm) 478.1 478.0 477.8 477.6	D.O. (mg/L) 0.12 0.12 0.12 0.12	<b>pH</b> 6.45 6.45 6.45 6.45	ORP (mV) 8.0 8.7 9.3 9.8	Turbidity (NTU)	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3	Cond. (uS/cm) 478.1 478.0 477.8 477.6 477.9	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12	pH 6.45 6.45 6.45 6.45 6.45 6.45	ORP (mV) 8.0 8.7 9.3 9.8 9.0	Turbidity (NTU) 	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 TYPICAL A	Cond. (uS/cm) 478.1 478.0 477.8 477.6 477.9 NALYSIS AI	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12	pH 6.45 6.45 6.45 6.45 6.45 R BOTTLE	ORP (mV) 8.0 8.7 9.3 9.8 9.0 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 <b>TYPICAL A</b> (8260) (8010	Cond. (uS/cm) 478.1 478.0 477.8 477.8 477.6 477.9 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1	pH 6.45 6.45 6.45 6.45 6.45 R BOTTLE NWTPH-Gx)	ORP (mV) 8.0 8.7 9.3 9.8 9.0 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0! plicable or write r	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 25.3 <b>TYPICAL A</b> (8260) (8010 (8270) (PAH	Cond. (uS/cm) 478.1 478.0 477.8 477.8 477.6 477.9 NALYSIS AI 0) (8020) (N I) (NWTPH-1	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 D) (NWTPH	pH 6.45 6.45 6.45 6.45 6.45 <b>R BOTTLE</b> NWTPH-GX) -Dx) (TPH-I	ORP (mV) 8.0 9.3 9.3 9.8 9.0 TYPE (Circle ap (BTEX) HCID) (8081) (3	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 <b>TYPICAL A</b> (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm) 478.1 478.0 477.8 477.6 477.6 477.9 NALYSIS AI 0) (8020) (N 1) (NWTPH-I ctivity) (TDS	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 D) (NWTPH G) (TSS) (Be	pH 6.45 6.45 6.45 6.45 6.45 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid	ORP (mV) 8.0 8.7 9.3 9.8 9.0 TYPE (Circle ap (BTEX) HCID) (8081) (i ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 25.3 25.3 25.3 (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC	Cond. (uS/cm) 478.1 478.0 477.8 477.6 477.6 477.9 NALYSIS AI 0) (8020) (N I) (NWTPH-1 cctivity) (TDS C) (Total PO4	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	pH 6.45 6.45 6.45 6.45 6.45 6.45 R BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen)	ORP (mV) 8.0 9.3 9.3 9.8 9.0 TYPE (Circle ap (BTEX) HCID) (8081) (3	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 25.3 25.3 (Second Second Seco	Cond. (uS/cm) 478.1 478.0 477.8 477.8 477.6 477.9 NALYSIS AI 0) (8020) (N 1) (NWTPH-1 (ctivity) (TDS C) (Total PO4 e) (WAD Cy	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (D) (NWTPH G) (TSS) (Be G) (TSS) (Be G) (Total Kiece anide) (Free b	pH 6.45 6.45 6.45 6.45 6.45 R BOTTLE NWTPH-GX) -Dx) (TPH-I DD) (Turbid dahl Nitrogen) Cyanide)	ORP (mV) 8.0 8.7 9.3 9.8 9.0 TYPE (Circle ap (BTEX) HCID) (8081) (i ity) (Alkalinity) ) (NH3) (NO3/1	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 25.3 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 478.1 478.0 477.8 477.8 477.6 477.9 NALYSIS AI 0) (8020) (N I) (NWTPH-1 ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (I)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 D) (NWTPH G) (TSS) (B0 C) (NWTPH G) (TSS) (B0 C) (Total Kiec anide) (Free Ba) (Be) (Ca	pH 6.45 6.45 6.45 6.45 6.45 6.45 <b>R BOTTLE</b> <b>WTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 8.0 8.7 -9.3 -9.8 -9.0 TYPE (Circle ap (BTEX) HCID) (8081) (fi ity) (Alkalinity) ) (NH3) (NO3/fi (Cr) (Cu) (Fe) (fi	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II) alysis below) WA WA WA ) (NO2) (F)	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 25.3 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 478.1 478.0 477.8 477.8 477.6 477.9 NALYSIS AI 0) (8020) (N I) (NWTPH-1 ictivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (I etals) (As) (Sb)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 D) (NWTPH G) (TSS) (B0 C) (Total Kiec anide) (Free Ba) (Be) (Ca	pH 6.45 6.45 6.45 6.45 6.45 6.45 <b>R BOTTLE</b> <b>WTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 8.0 8.7 -9.3 -9.8 -9.0 TYPE (Circle ap (BTEX) HCID) (8081) (fi ity) (Alkalinity) ) (NH3) (NO3/fi (Cr) (Cu) (Fe) (fi	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II) alysis below) WA WA WA ) (NO2) (F)	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 478.1 478.0 477.8 477.8 477.6 477.9 NALYSIS AI 0) (8020) (N I) (NWTPH-1 ictivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (I etals) (As) (Sb)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 D) (NWTPH G) (1SS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.45 6.45 6.45 6.45 6.45 6.45 <b>R BOTTLE</b> <b>WTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 8.0 8.7 -9.3 -9.8 -9.0 TYPE (Circle ap (BTEX) HCID) (8081) (fi ity) (Alkalinity) ) (NH3) (NO3/fi (Cr) (Cu) (Fe) (fi	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II) alysis below) WA WA WA ) (NO2) (F)	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 478.1 478.0 477.8 477.8 477.6 477.9 NALYSIS AI 0) (8020) (N I) (NWTPH- 1) (8020) (N I) (NWTPH- 1) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 D) (NWTPH G) (1SS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.45 6.45 6.45 6.45 6.45 6.45 <b>R BOTTLE</b> <b>WTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 8.0 8.7 -9.3 -9.8 -9.0 TYPE (Circle ap (BTEX) HCID) (8081) (fi ity) (Alkalinity) ) (NH3) (NO3/fi (Cr) (Cu) (Fe) (fi	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II) alysis below) WA WA WA ) (NO2) (F)	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 25.3 <b>TYPICAL A</b> (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth Methane Eth	Cond. (uS/cm) 478.1 478.0 477.8 477.8 477.6 477.9 NALYSIS AI 0) (8020) (N I) (NWTPH- 1) (8020) (N I) (NWTPH- 1) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 D) (NWTPH G) (1SS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.45 6.45 6.45 6.45 6.45 6.45 <b>R BOTTLE</b> <b>WTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 8.0 8.7 -9.3 -9.8 -9.0 TYPE (Circle ap (BTEX) HCID) (8081) (fi ity) (Alkalinity) ) (NH3) (NO3/fi (Cr) (Cu) (Fe) (fi	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II) alysis below) WA WA WA ) (NO2) (F)	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 478.1 478.0 477.8 477.8 477.6 477.9 NALYSIS AI 0) (8020) (N I) (NWTPH- 1) (8020) (N I) (NWTPH- 1) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 D) (NWTPH G) (1SS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.45 6.45 6.45 6.45 6.45 6.45 <b>R BOTTLE</b> <b>WTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 8.0 8.7 -9.3 -9.8 -9.0 TYPE (Circle ap (BTEX) HCID) (8081) (fi ity) (Alkalinity) ) (NH3) (NO3/fi (Cr) (Cu) (Fe) (fi	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II) alysis below) WA WA WA ) (NO2) (F)	Comments/ Observations
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 25.3 25.3	Cond. (uS/cm) 478.1 478.0 477.8 477.6 477.6 477.9 NALYSIS AI 0) (8020) (N 1) (NWTPH-1 (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb) g short list) ane Ethene Ac	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	pH 6.45 6.45 6.45 6.45 6.45 6.45 <b>R BOTTLE</b> <b>WTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 8.0 8.7 -9.3 -9.8 -9.0 TYPE (Circle ap (BTEX) HCID) (8081) (fi ity) (Alkalinity) ) (NH3) (NO3/fi (Cr) (Cu) (Fe) (fi	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II) alysis below) WA WA WA ) (NO2) (F)	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 25.3 25.3	Cond. (uS/cm) 478.1 478.0 477.8 477.8 477.6 477.9 NALYSIS AI 0) (8020) (N I) (NWTPH- 1) (8020) (N I) (NWTPH- 1) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb) g short list)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	pH 6.45 6.45 6.45 6.45 6.45 6.45 <b>R BOTTLE</b> <b>WTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 8.0 8.7 -9.3 -9.8 -9.0 TYPE (Circle ap (BTEX) HCID) (8081) (fi ity) (Alkalinity) ) (NH3) (NO3/fi (Cr) (Cu) (Fe) (fi	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II) alysis below) WA WA WA ) (NO2) (F)	Comments/ Observations
Replicate  1 2 3 4 Average:  QUANTITY 5 1 1 1 1 Duplicate San	Temp (°F/°C) 25.2 25.3 25.3 25.3 25.3 25.3 25.3 25.3	Cond. (uS/cm) 478.1 478.0 477.8 477.6 477.6 477.9 NALYSIS AI 0) (8020) (N 1) (NWTPH-1 (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb) g short list) ane Ethene Ac	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	pH 6.45 6.45 6.45 6.45 6.45 6.45 <b>R BOTTLE</b> <b>WTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 8.0 8.7 -9.3 -9.8 -9.0 TYPE (Circle ap (BTEX) HCID) (8081) (fi ity) (Alkalinity) ) (NH3) (NO3/fi (Cr) (Cu) (Fe) (fi	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II) alysis below) WA WA WA ) (NO2) (F)	Comments/ Observations



Project Nam	e:	Boeing Rent	on		Project Number	r:	0025217.099.0	99	
Event:		Quarterly Au	ugust 2018		Date/Time:	8/ 14 /2018@	1330		
Sample Num	nber:	RGW239I-	180814		Weather:	70S SMOKY			
Landau Repr	resentative:	SRB							
WATER LEV	EL/WELL/PU	<b>RGE DATA</b>							
Well Conditio	on:	Secure (YES)		Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	5.69	Time:	1257	Flow through cel	l vol.		GW Meter No.(s	HERON3
Begin Purge:	Date/Time:	8/14 /2018	1300	End Purge:	Date/Time:	8/ 14 /2018 @	1320	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°Ĉ)	(uS/cm)	(mg/L)	· • • •	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	ils: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	< 0.3  ft	>/= 1 flow through cell	
1303	21.6	345.4	0.54	6.56		LOW	5.69		
1305	22.1	347.7	0.30	6.37	33.2	LOW	5.69		
1309	23.5	348.4	0.24	6.28	30.5		5.69		
1312	24.8	352.0	0.23	6.30	25.7		·		
1315	25.8	361.5	0.20	6.31	20.5		<u></u>		
1318	26.2	364.4	0.22	6.31	18.9				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer			DED BLADDER			
Made of:		Stainless Stee	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	,	Other							
Sample Descr	intion (onlor t								
		urbidity, odor,	sheen, etc.):	SLIGHTY G	RAY CLEAR NC	/NS			
	Temp	urbidity, odor,	sheen, etc.):	SLIGHTY G	RAY CLEAR NO	O/NS Turbidity	DTW	Ferrous iron	Comments/
Replicate							DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	Temp	Cond.	D.O.		ORP	Turbidity			
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity			
Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 26.1	Cond. (uS/cm) 365.8	D.O. (mg/L) 0.19	<b>рН</b> 6.32	ORP (mV) 18.3	Turbidity			
Replicate 1 2 3	Temp (°F/°C)           26.1           26.3           26.4	Cond. (uS/cm) 365.8 366.8 367.7	D.O. (mg/L) 0.19 0.17 0.18	рН 6.32 6.32 6.32	ORP (mV) 18.3 17.6 17.2	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C)           26.1           26.3           26.4           26.4	Cond. (uS/cm) 365.8 366.8 367.7 368.5	D.O. (mg/L) 0.19 0.17 0.18 0.18	<b>pH</b> 6.32 6.32 6.32 6.32 6.32	ORP (mV) 18.3 17.6 17.2 16.5	Turbidity (NTU)			
Replicate 1 2 3 4 Average:	Temp (°F/°C)           26.1           26.3           26.4           26.3	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18	<b>pH</b> 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) 18.3 17.6 17.2 16.5 17.4	Turbidity (NTU) 	(ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 26.1 26.3 26.4 26.4 26.4 26.4 26.3	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 LOWED PE	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.1 26.3 26.4 26.4 26.4 26.3 TYPICAL A (8260) (8010	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALVSIS AL 0) (8020) (N	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 LOWED PE WTPH-G) (1	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0! plicable or write n	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 26.1 26.3 26.4 26.4 26.3 TYPICAL A (8260) (8010 (8270) (PAH	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL 0) (8020) (N I) (NWTPH-I	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 LOWED PE WTPH-G) (1 D) (NWTPH	pH 6.32 6.32 6.32 6.32 6.32 8.80TTLE NWTPH-Gx) -Dx) (TPH-I	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (5	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           26.1           26.3           26.4           26.3           26.4           26.3           TYPICAL A           (8260)           (8010)           (8270)           (PAF)           (pH)	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL )) (8020) (N H) (NWTPH-I ctivity) (TDS	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 LOWED PE WTPH-G) (1 0) (NWTPH- 0) (TSS) (BC	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I OD) (Turbid	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (5	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           26.1           26.3           26.4           26.3           26.4           26.3           TYPICAL A           (8260)         (8010)           (8270)         (PAF)           (pH)         (Condu           (COD)         (TOO)	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL )) (8020) (N H) (NWTPH-I ctivity) (TDS	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 LOWED PE WTPH-G) (1 D) (NWTPH- D) (TSS) (BC ) (Total Kiec	pH <u>6.32</u> <u>6.32</u> <u>6.32</u> <u>6.32</u> <u>6.32</u> <u>6.32</u> <b>R BOTTLE</b> <b>NWTPH-G</b> X) -DX) (TPH-I OD) (Turbid lahl Nitrogen)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (3 ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.1 26.3 26.4 26.4 26.4 26.4 26.4 26.3 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 LOWED PE WTPH-G) (1 O) (NWTPH-G) (1 O) (NWTPH-G) (1 O) (TSS) (BG) (1) (Total Kieconnic) (Free Connic) (Free Connic	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) -Dx) (TPH-I DD) (Turbid dahl Nitrogen) Cyanide)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 <b>TYPE (Circle ap</b> (BTEX) HCID) (8081) (i ity) (Alkalinity) ) (NH3) (NO3/1	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C	(ft)	(Fe II)	Observations OBSERVATIONS OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           26.1           26.3           26.4           26.3           26.4           26.3           TYPICAL A           (8260)           (8010)           (8270)           (PAH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL 0) (8020) (N I) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb)	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 UOWED PE WTPH-G) (1 D) (NWTPH-G) (1 D) (NWTPH-G) (1 D) (NWTPH-G) (1 D) (TSS) (BC) (1 Total Kieco mide) (Free Ca) (3 a) (Be) (Ca)	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OBSERVATIONS OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           26.1           26.3           26.4           26.3           TYPICAL A           (8260)           (8010)           (8270)           (PAF)           (PH)           (Conductor)           (Total Cyanid)           (Dissolved Miction)           VOC (Boein)	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 0.18 UOWED PE WTPH-G) (1 0) (NWTPH- 0) (NWTPH- 0) (TSS) (Bd) 0) (Total Kiec nide) (Free 0 Ba) (Be) (Ca)	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           26.1           26.3           26.4           26.3           TYPICAL A           (8260)           (8010)           (8270)           (PAF)           (PH)           (Conductor)           (Total Cyanid)           (Dissolved Miction)           VOC (Boein)	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL 0) (8020) (N I) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb)	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 0.18 UOWED PE WTPH-G) (1 0) (NWTPH- 0) (NWTPH- 0) (TSS) (Bd) 0) (Total Kiec nide) (Free 0 Ba) (Be) (Ca)	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           26.1           26.3           26.4           26.3           TYPICAL A           (8260)           (8010)           (8270)           (PAF)           (PH)           (Conductor)           (Total Cyanid)           (Dissolved Miction)           VOC (Boein)	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 0.18 UOWED PE WTPH-G) (1 0) (NWTPH- 0) (NWTPH- 0) (TSS) (Bd) 0) (Total Kiec nide) (Free 0 Ba) (Be) (Ca)	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           26.1           26.3           26.4           26.3           TYPICAL A           (8260)           (8010)           (8270)           (PAF)           (PH)           (Conductor)           (Total Cyanid)           (Dissolved Miction)           VOC (Boein)	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 0.18 UOWED PE WTPH-G) (1 0) (NWTPH- 0) (NWTPH- 0) (TSS) (Bd) 0) (Total Kiec nide) (Free 0 Ba) (Be) (Ca)	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           26.1           26.3           26.4           26.3           TYPICAL A           (8260)           (8010)           (8270)           (PAF)           (PH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved M.           VOC (Boein           Methane Eth           others	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 0.18 UOWED PE WTPH-G) (1 0) (NWTPH- 0) (NWTPH- 0) (TSS) (Bd) 0) (Total Kiec nide) (Free 0 Ba) (Be) (Ca)	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           5           1           1           1           1           2           3           4           Average:           QUANTITY           5           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1	Temp (°F/°C)           26.1           26.3           26.4           26.3           TYPICAL A           (8260)           (8010)           (8270)           (PAF)           (PH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved M.           VOC (Boein           Methane Eth           others	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 0.18 UOWED PE WTPH-G) (1 0) (NWTPH- 0) (NWTPH- 0) (TSS) (Bd) 0) (Total Kiec nide) (Free 0 Ba) (Be) (Ca)	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Replicate  1 2 3 4 Average:  QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C)           26.1           26.3           26.4           26.3           TYPICAL A           (8260)           (8010)           (8270)           (PAF)           (PH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein           Methane Eth           others	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 0.18 UOWED PE WTPH-G) (1 0) (NWTPH- 0) (NWTPH- 0) (TSS) (Bd) 0) (Total Kiec nide) (Free 0 Ba) (Be) (Ca)	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           8141) (Oil & Greaa (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (Ni) (A	(ft) 	(Fe II)	Observations
Replicate           1           2           3           4           Average:           QUANTITY           5           1           1           1           1           2           3           4           Average:           QUANTITY           5           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1	Temp (°F/°C)           26.1           26.3           26.4           26.3           TYPICAL A           (8260)           (8010)           (8270)           (PAF)           (PH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved M.           VOC (Boein           Methane Eth           others	Cond. (uS/cm) 365.8 366.8 367.7 368.5 367.2 NALYSIS AL 0) (8020) (N 1) (NWTPH-I ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.19 0.17 0.18 0.18 0.18 0.18 0.18 UOWED PE WTPH-G) (1 0) (NWTPH- 0) (NWTPH- 0) (TSS) (Bd) 0) (Total Kiec nide) (Free 0 Ba) (Be) (Ca)	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 18.3 17.6 17.2 16.5 17.4 TYPE (Circle ap (BTEX) HCID) (8081) (1 ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU) #DIV/0! plicable or write n 8141) (Oil & Grea (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations



Project Name	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 14 /2018@	1400		
Sample Num	nber:	RGW240D-	180814		Weather:	70S SMOKY			
Landau Repr	resentative:	SRB							
WATER LEV	EL/WELL/PU	<b>IRGE DATA</b>							
Well Conditio	n:	Secure (YES)	)	Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	5.93	Time:	1315	Flow through cel	l vol.		GW Meter No.(s	HERON3
Begin Purge:	Date/Time:	8/14 /2018	1330	End Purge:	Date/Time:	8/ 14 /2018 @	1350	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)	•	(mV)	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
	Purge Goa +/- 3%	lls: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	lings within the fo +/- 10%	llowing limits < 0.3 ft	>/= 1 flow through cell	
1222								thi ough cen	
1333	23.0	443.2	0.27	6.31		LOW	6.19		
1336	24.1	450.6	0.19	6.31	8.0		6.10		
1339	25.2	463.5	0.17	6.36	9.4		6.10		
1342	26.0	471.5	0.14	6.39	4.4				
1345	27.0	482.7	0.12	6.43	-6.2				
1348	27.2	484.4	0.14	6.44	-8.9				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
	,		sheen, etc.):	SLIGHTY G	RAY AND TURE	BID SLIGHT ROTT	TEN ODOR NO/	NS	
Sample Descr	iption (color, t	urbidity, odor,	-						Commontol
	iption (color, t Temp		D.O.	SLIGHTY G	ORP	Turbidity	TEN ODOR NO/ DTW (ft)	Ferrous iron	Comments/ Observations
Sample Descri	iption (color, t Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)		DTW		
Sample Descr Replicate	iption (color, t Temp (°F/°C) 27.2	urbidity, odor, Cond. (uS/cm) 485.0	D.O. (mg/L) 0.14	<b>рН</b> 6.44	ORP (mV) -10.1	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate 1 2	iption (color, t Temp (°F/°C) 27.2 27.3	Cond. (uS/cm) 485.0 487.5	D.O. (mg/L) 0.14 0.12	рН 6.44 6.45	ORP (mV) -10.1 -11.5	Turbidity	DTW	Ferrous iron	
Sample Descri Replicate	iption (color, t Temp (°F/°C) 27.2 27.3 27.3	Cond. (uS/cm) 485.0 487.5 487.9	D.O. (mg/L) 0.14 0.12 0.12	<b>pH</b> 6.44 6.45 6.45	ORP (mV) -10.1 -11.5 -12.3	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate 1 2	iption (color, t Temp (°F/°C) 27.2 27.3	Cond. (uS/cm) 485.0 487.5	D.O. (mg/L) 0.14 0.12	рН 6.44 6.45	ORP (mV) -10.1 -11.5	Turbidity	DTW	Ferrous iron	
Sample Descri Replicate	iption (color, t Temp (°F/°C) 27.2 27.3 27.3	Cond. (uS/cm) 485.0 487.5 487.9	D.O. (mg/L) 0.14 0.12 0.12	<b>pH</b> 6.44 6.45 6.45	ORP (mV) -10.1 -11.5 -12.3	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 27.2 27.3 27.3 27.3 27.3 27.3	Cond. (uS/cm) 485.0 487.5 487.9 488.2 487.2	D.O. (mg/L) 0.14 0.12 0.12 0.12 0.13	<b>pH</b> 6.44 6.45 6.45 6.43 6.43	ORP (mV) -10.1 -11.5 -12.3 -12.7 -11.7	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Sample Descr Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 27.2 27.3 27.3 27.3 27.3 27.3 TYPICAL A	Cond. (uS/cm) 485.0 487.5 487.9 488.2 487.2	D.O. (mg/L) 0.14 0.12 0.12 0.12 0.12 0.13 LOWED PE	pH 6.44 6.45 6.45 6.43 6.44 R BOTTLE	ORP (mV) -10.1 -11.5 -12.3 -12.7 -11.7	Turbidity (NTU) 	DTW (ft)	Ferrous iron (Fe II)	Observations
Sample Descr Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 27.2 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.	Cond. (uS/cm) 485.0 487.5 487.5 487.9 488.2 487.2 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.14 0.12 0.12 0.12 0.13 LOWED PE WTPH-G) (1	pH 6.44 6.45 6.45 6.43 6.44 <b>R BOTTLE</b> NWTPH-Gx)	ORP (mV) -10.1 -11.5 -12.3 -12.7 -11.7 TYPE (Circle ap (BTEX)	Turbidity (NTU) 	DTW (ft)	Ferrous iron (Fe II)	Observations
Sample Descr Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 27.2 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 (8260) (8010 (8270) (PAH	Cond. (uS/cm) 485.0 487.5 487.5 487.9 488.2 487.2 NALYSIS AI 0) (8020) (N 1) (NWTPH-I ctivity) (TDS	D.O. (mg/L) 0.14 0.12 0.12 0.12 0.13 LOWED PE WTPH-G) (1 D) (NWTPH G) (TSS) (Be	pH 6.44 6.45 6.45 6.43 6.44 <b>R BOTTLE</b> NWTPH-GX) -Dx) (TPH-I OD) (Turbid	ORP (mV) -10.1 -11.5 -12.3 -12.7 -11.7 TYPE (Circle ap (BTEX) HCID) (8081) (3 ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r 8141) (Oil & Grea (HCO3/CO3) (C	DTW (ft)	Ferrous iron (Fe II)	Observations
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Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5	iption (color, t Temp (°F/°C) 27.2 27.3 27.3 27.3 27.3 27.3 27.3 27.3 (27.3) 27.3 27.3 (27.3) 27.3 (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.4) (27.4) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27	Cond. (uS/cm) 485.0 487.5 487.5 487.9 488.2 487.2 NALYSIS AI 0) (8020) (N H) (NWTPH-1 ctivity) (TDS C) (Total PO4 e) (WAD Cys 0) (As) (Sb) (I	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.13 LOWED PE WTPH-G) (1 D) (NWTPH G) (TSS) (B0 C) (TSS) (B0 C) (Total Kiece anide) (Free Ba) (Be) (Ca)	pH <u>6.44</u> <u>6.45</u> <u>6.43</u> <u>6.43</u> <u>6.44</u> <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -10.1 -11.5 -12.3 -12.7 -12.7 -11.7 TYPE (Circle ap (BTEX) HCID) (8081) (3 ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           8141) (Oil & Greating (HCO3/CO3) (C           (NO2)           2b) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)	Observations
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Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	iption (color, t Temp (°F/°C) 27.2 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 (27.3) 27.3 27.3 27.3 (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.3) (27.4) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6) (27.6	Cond. (uS/cm) 485.0 487.5 487.5 487.9 488.2 487.2 NALYSIS AI 0) (8020) (N I) (NWTPH-1 ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 0.14 0.12 0.12 0.12 0.13 LOWED PE WTPH-G) (1 D) (NWTPH G) (TSS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Cal ) (Ba) (Be) (Cal	pH <u>6.44</u> <u>6.45</u> <u>6.43</u> <u>6.43</u> <u>6.44</u> <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -10.1 -11.5 -12.3 -12.7 -12.7 -11.7 TYPE (Circle ap (BTEX) HCID) (8081) (3 ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           8141) (Oil & Greating (HCO3/CO3) (C           (NO2)           2b) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C) 27.2 27.3 27.3 27.3 27.3 27.3 27.3 27.3	Cond. (uS/cm) 485.0 487.5 487.5 487.9 488.2 487.2 NALYSIS AI 0) (8020) (N I) (NWTPH-1 ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 0.14 0.12 0.12 0.12 0.13 LOWED PE WTPH-G) (1 D) (NWTPH G) (TSS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH <u>6.44</u> <u>6.45</u> <u>6.43</u> <u>6.43</u> <u>6.44</u> <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -10.1 -11.5 -12.3 -12.7 -12.7 -11.7 TYPE (Circle ap (BTEX) HCID) (8081) (3 ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           8141) (Oil & Greating (HCO3/CO3) (C           (NO2)           2b) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Temp (°F/°C) 27.2 27.3 27.3 27.3 27.3 27.3 27.3 27.3	Cond. (uS/cm) 485.0 487.5 487.5 487.9 488.2 487.2 NALYSIS AI 0) (8020) (N I) (NWTPH-1 ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 0.14 0.12 0.12 0.12 0.13 LOWED PE WTPH-G) (1 D) (NWTPH G) (TSS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH <u>6.44</u> <u>6.45</u> <u>6.43</u> <u>6.43</u> <u>6.44</u> <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -10.1 -11.5 -12.3 -12.7 -12.7 -11.7 TYPE (Circle ap (BTEX) HCID) (8081) (3 ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           8141) (Oil & Greating (HCO3/CO3) (C           (NO2)           2b) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C) 27.2 27.3 27.3 27.3 27.3 27.3 27.3 27.3	Cond. (uS/cm) 485.0 487.5 487.5 487.9 488.2 487.2 NALYSIS AI 0) (8020) (N I) (NWTPH-1 ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 0.14 0.12 0.12 0.12 0.13 LOWED PE WTPH-G) (1 D) (NWTPH G) (TSS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH <u>6.44</u> <u>6.45</u> <u>6.43</u> <u>6.43</u> <u>6.44</u> <b>R BOTTLE</b> <b>NWTPH-GX</b> -DX) (TPH-I OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -10.1 -11.5 -12.3 -12.7 -12.7 -11.7 TYPE (Circle ap (BTEX) HCID) (8081) (3 ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           8141) (Oil & Greating (HCO3/CO3) (C           (NO2)           2b) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)	Observations



Project Name	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13/2018@1	436		
Sample Num	ber:	RGW-241S	180813		Weather:	70'S, PARTLY S	UNNY		
Landau Repr	resentative:	JHA			-				
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	n:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	6.31	Time:	1409	Flow through cel	l vol.		GW Meter No.(	SLOPE 2
Begin Purge:	Date/Time:	8/ 13 /2018	@ 1412	End Purge:	Date/Time:	8/ 13 /2018 @ 14	33	Gallons Purged:	0.05
Purge water di	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C) Purge Goa	Cond. (uS/cm) ls: Stablizatio	D.O. (mg/L) on of Parame	pH ters for three	ORP (mV) e consecutive read	Turbidity (NTU) dings within the fol	DTW (ft) llowing limits	Internal Purge Volume (gal) >/= 1 flow	Comments/ Observations
	+/- 3%	+/- 3%		+/- 0.1 units		·/- 10%	< 0.3 ft	through cell	
1415	22.03	373	0.55	6.33	1.3	LOW	6.31	<0.25	
1418	21.71	352	0.44	6.06	-27.1		6.31		
1421	21.85	350	0.27	6.07	-43.9			0.25	
1424	21.84	349	0.17	6.24	-66.2			·	
1427	21.70	349	0.15	6.27	-71.5	·	0.01		
1430		349	0.13	6.32				0.5	
1432	21.62	349	0.12	6.34	-77.6				
SAMPLE CO Sample Collec			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	_	Tap Rinse	DI Water	Dedicated		Dealeated	
(By Numerica)		Other		Tup Tunot		Douloutou			
			sheen, etc.):	CLEAR, CO	LORLESS, NO/N	IS			
	-	-							
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	21.61	349	0.13	6.34	-77.9				
2	21.63	349	0.12	6.34	-78.1				
3	21.61	349	0.12	6.34	-78.1				
4	21.68	349	0.11	6.34	-78.5				
Average:	21.63	349	0.12	6.34	-78.2	#DIV/0!			
r									
		$\frac{NALYSIS AI}{(8020)} $ (N				plicable or write n	on-standard a	WA	OR 🗆
						(8141) (Oil & Grea	(se)	WA 🗆	OR 🗆
						(HCO3/CO3) (C			
	(COD) (TOO	C) (Total PO-	4) (Total Kie	dahl Nitrogen	n) (NH3) (NO3/	NO2)			
ļļ		le) (WAD Cy		•					
						Pb) (Mg) (Mn) (N			
			) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (Pt	o) (Mg) (Mn) (Ni) (A	Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (N)	Na) (Hardness) (Silica
	VOC (Boein Methane Eth	g short list) ane Ethene Ac	etvlene						
	meulane Eth	and Eulelle AC	Clyielle						
	others								

Comments: Signature:

JHA



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13/2018@ 1	501		
Sample Nurr	ber:	RGW-242I-	-		Weather:	70'S, PARTLY S			
Landau Repr		JHA				,			
WATER LEV	EL/WELL/PU	URGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	6.44	Time:	1416	Flow through ce	ll vol.		GW Meter No.(	SLOPE 2
Begin Purge:	Date/Time:	8/ 13 /2018	@ 1437	End Purge:	Date/Time:	8/ 13 /2018 @ 14	58	Gallons Purged:	0.75
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°Č)	(uS/cm)	(mg/L)	-	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units		dings within the fol +/- 10%	llowing limits < 0.3 ft	>/= 1 flow through cell	
1440	23.01	371	0.44	6.27		LOW		<0.25	
						LOW	0.44	<0.23	
1443	23.43	371	0.43	6.31	-38.4			·	
1446	23.66	371	0.42	6.37	-41.4				
1449	23.81	371	0.39	6.50	-53.8				
1452	23.87	371	0.37	6.51	-62.9				
1455	23.95	371	0.35	6.52	-68.2				
1457	24.04	370	0.30	6.54	-72.1				
								·	
SAMPLE CO	LLECTION I	DATA	·						
Sample Collec			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
Sample Descr	iption (color,	turbidity, odor,	sheen, etc.):	CLEAR, CO	LORLESS, NO/N	IS			
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	24.05	370	0.33	6.53	-72.4	(((10)	(11)	(1 • 11)	o boor varions
2	24.05	370	0.33	6.52	-72.9				
3	24.05	370	0.33	6.52	-73.2				
4	24.06	370	0.32	6.52	-73.6				
Average:	24.05	370	0.33	6.52	-73.0	#DIV/0!			
OUANTITY	TYPICAL A	NALYSIS AI	LOWED PE	R BOTTLE	TYPE (Circle a	oplicable or write n	on-standard a	nalysis below)	
5		0) (8020) (N				•		WA 🗆	OR 🗆
	(8270) (PAH	H) (NWTPH-	D) (NWTPH	I-Dx) (TPH-	HCID) (8081)	(8141) (Oil & Grea	use)	WA 🗆	OR 🗆
	(pH) (Condu	ctivity) (TDS	S) (TSS) (B	OD) (Turbi	dity) (Alkalinity)	(HCO3/CO3) (C	1) (SO4) (NC	3) (NO2) (F)	
	(COD) (TO				n) (NH3) (NO3)	/NO2)			
		le) (WAD Cy					** ***		\ (T7) (CY)
						(Pb) (Mg) (Mn) (N)			
			) (Ba) (Be) (C	.a) (Cd) (Co)	(Cr) (Cu) (Fe) (P	o) (Mg) (Mn) (N1) (A	Ag) (Se) (11) (V	<u>) (Zn) (Hg) (K) (</u> [	Na) (Hardness) (Silica
	VOC (Boein Methane Eth	ane Ethene Ac	etvlene						
	inconune Lu	and Enterio A							
	others								
Devilie ( C									
Duplicate San	ipie ivo(s):								

Comments: Signature:

JHA

Date: 8/13/2018



Project Nam	e <u>:</u>	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/14 /2018@	1548		
Sample Num	iber:	RGW-243I	180814		Weather:	HAZY			
Landau Repr	resentative:	CEB			-				
WATER LEV	EL/WELL/PI	URGE DATA							
Well Conditio	n:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	5.45	Time:	1517	Flow through cel	l vol.		GW Meter No.(s	1
Begin Purge:	Date/Time:	8/ 14/2018	@1519	End Purge:	Date/Time:	8/ 14 /2018 @	1541	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /° <b>Ĉ</b> )	(uS/cm)	( <b>mg/L</b> )	-	( <b>mV</b> )	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units		dings within the fo +/- 10%	ollowing limits < 0.3 ft	>/= 1 flow through cell	
1500								thi ough cen	
1522	25.5	449.3	0.20	6.23		LOW	5.45	·	
1525	26.4	459.1	0.19	6.21	53.2		5.47	·	
1528	26.9	463.7	0.21	6.22	49.3		5.47		
1531	27.9	477.0	0.23	6.29	39.3				
1534	28.2	480.8	0.24	6.29	35.1				
1537	28.4	482.1	0.29	6.28	30.9				
1539	28.4	482.7	0.31	6.28	29.2		· · · · · · · · · · · · · · · · · · ·		
1559	20.4	402.7	0.51	0.28	29.2		·		
SAMPLE CO	LECTION	<u></u>					·	·	
Sample Collec		_	Bailer	c h	Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene		Dedicated	
Decon Proced	ure 🗖	Alconox Wa		Tap Rinse	DI Water	Dedicated		<b>'</b> *	
(By Numerica		Other		rup runse				X	
	,		, sheen, etc.):	SLIGHTLY	GRAY CLEAR N	IO/NS			
-	1	2.	· · · · -						
Replicate	Temp (°F/°C)	Cond.	<b>D.O.</b> $(ma \pi)$	pН	ORP	Turbidity	DTW	Ferrous iron	Comments/
		(uS/cm)	(mg/L)		(mV)	(NTU)	( <b>ft</b> )	(Fe II)	Observations
1	28.4	483.1	0.33	6.28	28.7			·	
2	28.4	483.8	0.33	6.29	28.1		·		
3	28.4	484.7	0.33	6.29	27.70				
4	28.4	485.5	0.33	6.29	27.2				
Average:	28.4	484.3	0.33	6.29	27.9	#DIV/0!			
OUANTITY	TVPICAL A	NALVSIS AI	LOWFD PF	<b>B BOTTLF</b>	TVPF (Circle ar	oplicable or write	non-standard a	nalvsis helow)	
		$\frac{1}{1} (8020) (N)$			•	pheable of write	non-standaru a	WA 🗆	OR 🗆
						(8141) (Oil & Gre	ease)	WA 🗆	OR 🗆
	. , .	/ (	/ \		, , ,	(HCO3/CO3) (	,		
1					n) (NH3) (NO3/				
	(Total Cyanic	le) (WAD Cy	anide) (Free	Cyanide)					
						(Pb) (Mg) (Mn) (			
			o) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (Pl	o) (Mg) (Mn) (Ni)	(Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (N	Va) (Hardness) (Silica
	VOC (Boein		<i>(</i> 1						
	Methane Eth	ane Ethene A	cetylene						
	others								
·									

Duplicate Sample No(s):

Comments:

Signature: CEB



Project Nam	ie:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/14 /2018@	1348		
Sample Nun	nber:	RGW-244S	1808		Weather:	HAZY 80S			
Landau Rep	resentative:	CEB							
WATER LEV	/EL/WELL/P	JRGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	5.45	Time:	1316	Flow through cel	l vol.		GW Meter No.(s	1
Begin Purge:	Date/Time:	8/ 14 /2018	1320	End Purge:	Date/Time:	8/14 /2018 @	1341	Gallons Purged:	0.25
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	lings within the fo +/- 10%	ollowing limits < 0.3 ft	>/= 1 flow through cell	
1323		469.9	0.14	6.12		LOW	5.45	g	
1326		478.5	0.17	6.12		10.11	5.46		
1329		511.0	0.19	6.17	59.5		5.48		
1332	24.8	517.0	0.20	6.18	55.6				
1335	25.2	522.0	0.23	6.20	51.5				
1338	25.4	524.0	0.29	6.21	47.3				
1340	25.6	530.0	0.32	6.21	44.9				
SAMPLE CC	LLECTION I	DATA							
Sample Colle	cted With:		Bailer			DED BLADDER			
Made of:		Stainless Stee		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee		Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	,	Other							
Sample Desci	ription (color, 1	urbidity, odor,	, sheen, etc.):	CLEAR, SL	IGHT YELLOW	COLOR, NO/NS			
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	25.7	530.0	0.31	6.21	44.4				
2	25.7	531.0	0.32	6.21	44.1				
3	25.7	531.0	0.34	6.21	43.50				
4	25.7	531.0	0.35	6.21	42.9				
- Average:	25.7	530.8	0.33	6.21	43.7	#DIV/0!			
	1								
QUANTITY 5			LLOWED PE WTPH-G) (			plicable or write	non-standard a	WA 🗆	OR 🗆
5						(8141) (Oil & Gre	ase)	WA 🗆	OR
						(HCO3/CO3) (0		(NO2) (F)	
1					a) (NH3) (NO3/			<i>c)</i> (1(02) (1)	
	1	le) (WAD Cy							
	(Total Metals	) (As) (Sb) (	Ba) (Be) (Ca	a) (Cd) (Co)	(Cr) (Cu) (Fe)	Pb) (Mg) (Mn) (l	Ni) (Ag) (Se) (	Tl) (V) (Zn) (Hg	g) (K) (Na)
			) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (Pl	o) (Mg) (Mn) (Ni) (	(Ag) (Se) (Tl) (V	) (Zn) (Hg) (K) (N	la) (Hardness) (Silica
	VOC (Boein								
	Methane Eth	ane Ethene Ac	cetylene						
	others								

Duplicate Sample No(s):

Comments:

Signature: CEB



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 15 /2018@	848		
Sample Nun	nber:	RGW185S-	-		Weather:	HAZY			
Landau Rep	resentative:	CEB			•				
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES)	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	2.31	Time:	817	Flow through cel	l vol.		GW Meter No.(s	1
	Date/Time:		818	End Purge:	-	8/ 15 /2018 @	842	Gallons Purged:	0.25
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATMI	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	( <b>mg/L</b> )	-	( <b>mV</b> )	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	llowing limits < 0.3 ft	>/= 1 flow through cell	
921								thi ough cen	
821		795.0	0.33	6.45		LOW	2.31		
824	21.7	782.0	0.27	6.46	75.7				
827	21.8	778.0	0.27	6.47	70.6		7.31	·	
830	22.2	766.0	0.31	6.47	60.5				
833	22.4	761.0	0.34	6.48	51.6				
836	22.4	760.0	0.39	6.47	50.6				
838		759.0	0.39	6.47	47.0				
SAMPLE CC	<b>LLECTION I</b>	ОАТА							
Sample Colle			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated		~	
(By Numerica	ıl Order)	Other				<i>^</i>			
Sample Desci	ription (color, 1	urbidity, odor,	sheen, etc.):	CLEAR CO	LORLESS NO/N	5			
Replicate	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	(°F/°C)	(uS/cm)	(mg/L)	pn	(mV)	(NTU)	(ft)	(Fe II)	Observations
1	22.4	758.0	0.40	6.47	46.2				
2	22.5	758.0	0.42	6.47	44.6				
3	22.5	757.0	0.42	6.47	43.3				
4	22.5	756.0	0.44	6.47	41.7				
Average:	22.5	757.3	0.42	6.47	44.0	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LOWED PE	R BOTTLE	TYPE (Circle ap	plicable or write 1	non-standard ar	nalysis below)	
5		)) (8020) (N							OR 🗆
	Ī					(8141) (Oil & G			OR 🗆
1		24 3	<i>´</i> ``´`````````````````````````````````	X		(HCO3/CO3) (C	<u>Cl) (SO4) (NO</u>	3) (NO2) (F)	
1		(10tal PO2) (WAD Cy)			n) (NH3) (NO3/	1102)			
		· · · ·			(Cr) (Cu) (Fe) (	Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) ('	Tl) (V) (Zn) (Hg	) (K)
						(Mg) (Mn) (Ni) (Mn) (Ni) (Mn) (Mn) (Ni) (Mn) (Mn) (Mn) (Mn) (Mn) (Mn) (Mn) (Mn			
	VOC (Boein	g short list)							
	Methane Eth	ane Ethene Ac	etylene						
ļ									
	.1								
	others								
Duplicate Sar		Duplicate Lo	cation (DUP3	)					

Date: 8/15/2018



Project Nam	ne:	Boeing Rent	ton		Project Numbe	er:	0025217.099.0	99	
Event:		Quarterly Au	ugust 2018		Date/Time:	8/15/2018	800		
Sample Nur	mber:	RGWDUP3	180815		Weather:	HAZY			
-	presentative:	CEB							
WATERIE	VEL/WELL/P								
WATER LE		Secure (YES)	1	Damaged (N	0)	Describe:			
		Secure (TES)		-				GW Meter No.(s	2)
DTW Before	Date/Time:	<u> 9/ /2018 @</u>	Time.	End Purge:	Flow through ce	8/ 15 /2018 @		Gallons Purged:	5)
Purge water of			55-gal Drum	Ĕ	Storage Tank	Ground	Other	SITE TREATM	ENT OVOTEM
i uige water t	uisposed to.		-		-				ENTSISTEM
Time	Temp (°F/°C)	Cond.	$\mathbf{D}.\mathbf{O}.$	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	· · · ·	(uS/cm) lls: Stablizatio	(mg/L) n of Paramet	ters for three	(mV) e consecutive rea	(NTU) dings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
		DUF	PLICA	АТЕ Л	TO RGV	W185S			
						•			
SAMPLE CO	OLLECTION I	DATA				·			
Sample Colle	ected With:		Bailer		Pump/Pump Type	e DED BLADDER			
Made of:		Stainless Stee	1	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other							
Sample Desc	ription (color,	turbidity, odor,	sheen, etc.):	CLEAR CO	LORLESS NO/N	S			
	T	<i>a</i> 1	<b>D</b> 0		0.00			<b>F</b>	Communitad
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1		(us/em) 758.0	-	6.47	45.3	(((10))	(10)	(1011)	o sol varions
1	22.5		0.41						
2	22.5	758.0	0.42	6.47	43.9				
3	22.6	757.0	0.43	6.47	42.3				
4	22.6	756.0	0.44	6.47	41.1				
Average:	22.6	757.3	0.43	6.47	43.2	#DIV/0!			
QUANTITY		NAT VSIS AT	I OWED PE	P ROTTI F	TVPF (Circle a)	pplicable or write r	on-standard ar	alveis helow)	
5		0) $(8020)$ (N				spheable of write i	ion-standaru ar	WA 🗆	OR 🗆
						(8141) (Oil & Gr	rease)	WA 🗆	OR 🗆
						) (HCO3/CO3) (C			
1	(COD) (TO	C) (Total PO4	) (Total Kie	dahl Nitroger	n) (NH3) (NO3	/NO2)			
	(Total Cyanic	le) (WAD Cya	anide) (Free	Cyanide)					
						(Pb) (Mg) (Mn) (N			
			) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P	b) (Mg) (Mn) (Ni) (	Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (N)	Na) (Hardness) (Silica
ļ	VOC (Boein		. 1						
	Methane Eth	nane Ethene Ac	etylene						
ļ									
	others								
	Junets								
Duplicate Sa	mple No(s):	Duplicate to H	RGW185S						
Duplicate Sau Comments:	mple No(s):	Duplicate to H	RGW185S						

P:\8888 - Boeing Renton\02 Data Management\2018\3Q2018\field data\Landau Files\AOC1.2.3\_8.15.18\_CEB.xlsx



Finance         Operatorly August 2018         Pare/Time:         ½ 1.5 /2018@         114.5           Yanda Nopresentative:         SRB	Project Name	e:	Boeing Rent	ton		Project Number	r:	0025217.099.0	99	
Landau Representative:       SRB         WATER LEVEL AVELLAPRIGE DATA       Damaged (NO)       Describe:         DTW Before Purging (ft)       3.17       Time:       1012       Flow through cell vol.       GW Meter No.65 keroa 3         DPgin Purge:       Date/Time:       y/15       /2018       Hold Science       0.25         Progression do:       St-ged Dourn       Other Strict (Strict Version)       Other Strict (Strict Version)       0.05         Time       (Terr Op Cond.       D.0.       pll       ORP       Turbidity       DTW       for through cell       Volume (gab)       >>>       Strict (Strict Version)       >>       Comments/       Volume (gab)       >>	Event:		Quarterly A	ugust 2018		Date/Time:	8/ 15 /2018@	1045		
WATER LEVELAPURGE DATA       Damaged (NO)       Describe:       GW Meter No.(5 heren 3         Well Condition:       Secure (YES)       Data paged (NO)       Describe:       GW Meter No.(5 heren 3         Begin Page:       Data/Time & X15_2018       D105_ Lod Page:       Data/Time & X15_2018       D00_ Guine Transform 3       D02         Page water disposed to:       GN Cond       D.0,       PH       ORP:       Turbidity       DTW       Internal Page       Observations         Time       Temp Cond.       D.0,       PH       ORP:       Turbidity       DTW       Internal Page       Observations         1018_121_0_SS4_0_0_196_15       S710_LOW       S711_LOW       Conments'       Conments'       S72_0_0_0_0_16_6_22_2_245	Sample Num	nber:	RGW190S-	180815		Weather:	70s smoky			
Well Conductor:       Secure (VES)       Damaged (N)       Decripe:         DTW Before Purging (n)       3.17       Time:       1012       Flow through cell well.       000       Other       STERATIONES       0.155       2016 (Since Narged)       0.25         Purge water disposed to:       DS 52,000 (Since Narged)       DS 52,000 (Since Narged)<	Landau Repr	resentative:	SRB							
Well Conductor:       Secure (VES)       Damaged (N)       Decripe:         DTW Before Purging (n)       3.17       Time:       1012       Flow through cell well.       000       Other       STERATIONES       0.155       2016 (Since Narged)       0.25         Purge water disposed to:       DS 52,000 (Since Narged)       DS 52,000 (Since Narged)<	WATER LEV	EL/WELL/PU	IRGE DATA							
DTW Before Purging (f)       3.17       Time:       1012       Flow through cell vol.       GW Meter No.(5 heron 3       025         Regin Purge:       Data Time:       1015       Find Purge:       Data Time:       1010       Ginba Regide       025         Purge water disposed to:       S 5-gai Dumi       GN Ground       OT the STEE TREATMENT SYSTEM       Operations       Steep Tame       Operations       Steep Tame       Operations				)	Damaged (N	O)	Describe:			
Begin Purge:         Dar/Time:         B/15         2018         Dar/Time:         P1/5         2018         Diag         Diag         Diag         Diag         Diag         Diag         Diag         Diag         Strange Tank         Ground         Other         STTE TREATMENT SYSTEM           Time         CPF C         (GSCm)         (mg/L)         (mg/L)         (mg/L)         Turbidity         DVI         Turbidity         DVI         Turbidity         STTE TREATMENT SYSTEM         Observations           1018         21.0         55.49         0.19         6.15         37.0         LOW         3.17	DTW Before l	Purging (ft)	3.17	Time:	-		l vol.		GW Meter No.(s	heron 3
Purge vater disposed to:         D         55-gal Drum         Storage Tank         Ground         Other         STIE TREATMENT SYSTEM           Time         Temp (FCC)         Cond, (00,01)         D.O. (00,1)         PH         ORP (00,1)         Turbidity (00,1)         DTW (00,1)         Storage Tank         Other         STIE TREATMENT SYSTEM           1018         21.0         S54.0         0.19         6.15         37.0         LOW         31.7           1021         23.3         644.0         0.16         6.22         24.5         3.17           1024         23.5         70.00         0.17         6.23         19.8         3.17           1027         23.9         725.0         0.16         6.23         19.8         3.17           1027         23.9         725.0         0.16         6.23         19.8         3.17           1027         23.9         725.0         0.16         6.23         19.8         3.17           1026         Dedicated         PVC         Partification         Polytophycin         Other         Polytophycin         Dedicated           Sample Collected Wait:         Bailer         PVC         Tenp Rinee         D II Water         Dodicated      <		0 0 0						1030	-	
Time         CF/C)         (usVcm)         (mgL)         (mV)         (NTU)         (f)         (f)         Observations           1018         21.0         584.0         0.19         6.15         37.0         1.00*         3.17           1021         23.3         64.0         0.16         6.22         23.8         3.17	Purge water d	isposed to:			—	Storage Tank	Ground		-	
Purge Gaale: Stabilization of Parameters for three consecutive readings within the following limits by end low of through cell           1018         21.0         584.0         0.19         6.15         37.0         LOW         3.17           1021         23.3         694.0         0.16         6.22         24.5         3.17           1024         23.5         702.0         0.17         6.22         23.8         3.17           1027         23.9         725.0         0.16         6.23         19.8	Time				рН				0	
1018       21.0       584.0       0.19       6.15       37.0       LOW       3.17         1021       23.3       694.0       0.16       6.22       24.5       3.17         1024       23.5       702.0       0.17       6.22       23.8       3.17         1027       23.9       775.0       0.16       6.23       19.8				on of Parame					>/= 1 flow	
1021       233       694.0       0.16       6.22       24.5       3.17         1024       23.5       702.0       0.17       6.22       23.8       3.17         1027       23.9       725.0       0.16       6.23       19.8		+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1024       23.5       702.0       0.17       6.22       23.8       3.17         1027       23.9       725.0       0.16       6.23       19.8         1027       23.9       725.0       0.16       6.23       19.8         Sample Collected With:       ■       ■       ■       ■         Made of:       ■       Stainless Steel       ■ PVC       ■ Tethon       ■ Polyethylene       ■ Other       ■         Sample Collected With:       ■       Alconox Wash       □ Tap Rinse       D Water       D Edicated         (by Numerical Order)       □ Other       ■       ■       ■       ■       ■         Sample Collectored With:       ■       Alconox Wash       □ Tap Rinse       D Water       D Edicated       ■       ■         (by Numerical Order)       □ Other       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■       ■	1018	21.0	584.0	0.19	6.15	37.0	LOW	3.17		
1027       23.9       725.0       0.16       6.23       19.8         SAMPLE COLLECTION DATA       Sample Collected With:       Bailer       Pump/Pump Type DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other         Bample Collected With:       Alconox Wash       Tap Rinse       DI Water       Decineted       Other         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW WITH ORANGE PARTICULATES NO/NS         Replicate       Temp       Cond.       D.O.       pII       ORP       Turbidity       DTW       Ferrous iron       Comments/         1       23.9       728.0       0.16       6.24       19.1	1021	23.3	694.0	0.16	6.22	24.5		3.17		
SAMPLE COLLECTION DATA         Sample Collected With:       Stainless Steel       PVC       Teflon       Delicated         Decon Procedure:       Alconox Wash       Tap Rinse:       D Water       D Dedicated         Baller       Other       Domp/Pump Type       Dedicated         Barbor       Other       Domp/Pump Type       Dedicated         Boscription (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW WITH ORANGE PARTICULATES NO/NS         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       DTW       Ferrous iron       Comments/         1       23.9       728.0       0.16       6.24       18.9	1024	23.5	702.0	0.17	6.22	23.8		3.17		
SAMPLE COLLECTION DATA         Sample Collected With:       Stainless Steel       PVC       Teflon       Delicated         Decon Procedure:       Alconox Wash       Tap Rinse:       D Water       D Dedicated         Baller       Other       Domp/Pump Type       Dedicated         Barbor       Other       Domp/Pump Type       Dedicated         Boscription (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW WITH ORANGE PARTICULATES NO/NS         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       DTW       Ferrous iron       Comments/         1       23.9       728.0       0.16       6.24       18.9	1027	23.9	725.0	0.16	6.23	19.8				
Sample Collected With:       Bailer       Pump/Pump Type       DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other         Decon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated         By Numerical Order)       Other       Other       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW WITH ORANGE PARTICULATES NO/NS         Replicate       Temp Cond. D.O. pH (mV)       Turbidity (nt)       Prove (re II)         2       23.9       728.0       0.16       6.24       19.1         2       23.9       729.0       0.16       6.24       18.4								<u></u>		
Sample Collected With:       Bailer       Pump/Pump Type       DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other         Decon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated         By Numerical Order)       Other       Other       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW WITH ORANGE PARTICULATES NO/NS         Replicate       Temp Cond. D.O. pH (mV)       Turbidity (nt)       Prove (re II)         2       23.9       728.0       0.16       6.24       19.1         2       23.9       729.0       0.16       6.24       18.4										
Sample Collected With:       Bailer       Pump/Pump Type       DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other         Decon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated         By Numerical Order)       Other       Other       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW WITH ORANGE PARTICULATES NO/NS         Replicate       Temp Cond. D.O. pH (mV)       Turbidity (nt)       Prove (re II)         2       23.9       728.0       0.16       6.24       19.1         2       23.9       729.0       0.16       6.24       18.4		·								
Sample Collected With:       Bailer       Pump/Pump Type       DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other         Decon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated         By Numerical Order)       Other       Other       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW WITH ORANGE PARTICULATES NO/NS         Replicate       Temp Cond. D.O. pH (mV)       Turbidity (nt)       Prove (re II)         2       23.9       728.0       0.16       6.24       19.1         2       23.9       729.0       0.16       6.24       18.4		·						·		
Sample Collected With:       Bailer       Pump/Pump Type       DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other         Decon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated         By Numerical Order)       Other       Other       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW WITH ORANGE PARTICULATES NO/NS         Replicate       Temp Cond. D.O. pH (mV)       Turbidity (nt)       Prove (re II)         2       23.9       728.0       0.16       6.24       19.1         2       23.9       729.0       0.16       6.24       18.4										
Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Becon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated       Dedicated         (By Numerical Order)       Other       Stainless Steel       PVC       If Tap Rinse       DI Water       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW WITH ORANGE PARTICULATES NO/NS       Comments/         I       23.9       728.0       0.16       6.24       19.1       Observations         3       24.0       734.0       0.16       6.24       18.4				Pailor		Pump/Pump Type				
Decon Procedure:       Alconox Wash       Tap Rinse       D I Water       Dedicated         (By Numerical Order)       Other	-							C Other	Dedicated	
(By Numerical Order)       Other           Sample Description (color, turbidity, odor, sheen, etc.):       SIJGHTLY YELLOW WITH ORANGE PARTICULATES NO/NS         Replicate       Temp (°F/°C)       Cond. (us/cm)       D.O. (mg/L)       pH       ORP (mV)       Turbidity (NTU)       DTW (ft)       Ferrous iron (Fe II)       Comments/ Observations         1       23.9       728.0       0.16       6.24       19.1				_					Dedicated	
Sample Description (color, turbidity, odor, sheen, etc.): _SLIGHTLY YELLOW WITH ORANGE PARTICULATES NO/NS         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       DTW       Ferrous iron       Comments/         1       23.9       728.0       0.16       6.24       19.1				" L	rap Killse					
Replicate         Temp (*F/°C)         Cond. (uS/cm)         D.O. (mg/L)         pH         ORP (mV)         Turbidity (NTU)         DTW (ft)         Ferrous iron (Fe II)         Comments/ Observations           1         23.9         728.0         0.16         6.24         19.1		,						-		
(°F/°C)       (us/cm)       (mgL)       (mV)       (NTU)       (ft)       (Fe II)       Observations         1       23.9       728.0       0.16       6.24       19.1	Sumple Deser	idiion (coior, i	urbidity_odor_	sheen etc.):	SLIGHTLY	YELLOW WITH	ORANGE PARTIC	ULATES NO/N	S	
1       23.9       728.0       0.16       6.24       19.1         2       23.9       729.0       0.15       6.24       18.9		iption (color, t	urbidity, odor,	sheen, etc.):	SLIGHTLY	YELLOW WITH	ORANGE PARTIC	CULATES NO/N	S	
2       23.9       729.0       0.15       6.24       18.9         3       24.0       734.0       0.16       6.24       18.4         4       24.0       735.0       0.16       6.24       18.0         Average:       24.0       731.5       0.16       6.24       18.0         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-G)       (NWTPH-G)       (BTEX)       WA       OR       0R         (8270D)       (PAH)       (NWTPH-D)       (NWTPH-D)       (BTEX)       WA       OR       0R         (PH)       (Conductivity)       (TDS)       (TSS)       (BOD)       (Turbidity)       (HC3/CO3)       (C1)       (S04)       (NO3)       (NO2)         (Total Cvanide)       (WAD Cyanide)       (Free Cyanide)       (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Low)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (TI)       (VZn)       (Hg)       (K)       (Na)         (DDissolved Metals)       (As)       (Sb) <td< td=""><td>Replicate</td><td>Temp</td><td>Cond.</td><td>D.O.</td><td></td><td>ORP</td><td>Turbidity</td><td>DTW</td><td>Ferrous iron</td><td></td></td<>	Replicate	Temp	Cond.	D.O.		ORP	Turbidity	DTW	Ferrous iron	
3       24.0       734.0       0.16       6.24       18.4         4       24.0       735.0       0.16       6.24       18.0         Average:       24.0       731.5       0.16       6.24       18.0         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR          (8270D)       (PAH)       (NWTPH-D)       (NWTPH-Dx)       (TPH-HCID)       (8081)       (8141)       (011 & Grease)       WA       OR          (pH)       (Conductivity)       (TDS)       (TSS)       (BOD)       (Turbidity)       (Alkalinity)       (HCO3/CO3)       (Cl)       (NO2)       (F)         1       (COD)       (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Ca)       (Ca)       (Cd)       (Co)       (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Ca)       (Cd)       (Co)       (Ca)       (Cd)       (Co)       (Cr)       (Ca)       (Ca)       (Ca)	•	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity	DTW	Ferrous iron	
4       24.0       735.0       0.16       6.24       18.0         Average:       24.0       731.5       0.16       6.24       18.6       #DIV/0!         QUANTITY       TYPICAL ANALVSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       5       (8260)       (8010)       (8020)       (NWTPH-Gx)       (BTEX)       WA       OR	1	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 23.9	Cond. (uS/cm) 728.0	D.O. (mg/L) 0.16	<b>рН</b> 6.24	ORP (mV) 19.1	Turbidity	DTW	Ferrous iron	
Average:       24.0       731.5       0.16       6.24       18.6       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR	1 2	<b>Temp</b> (°F/°C) 23.9 23.9	Cond. (uS/cm) 728.0 729.0	<b>D.O.</b> (mg/L) 0.16 0.15	<b>рН</b> 6.24 6.24	ORP (mV) 	Turbidity	DTW	Ferrous iron	
QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)         5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-G)       (BTEX)       WA       OR         (8270D)       (PAH)       (NWTPH-D)       (NWTPH-D)       (TUPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       OR         (PH)       (Conductivity)       (TDS)       (TSS)       (BOD)       (Turbidity)       (Alkalinity)       (HCO3/CO3)       (Cl)       (SO4)       (NO3)       (NO2)       (F)         1       (COD)       (TOC)       (Total PO4)       (Total Kiedahl Nitrogen)       (NH3)       (NO3/NO2)         (Total Cyanide)       (WAD Cyanide)       (Free Cyanide)       (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Zu)       (H)       (Xu)       (K)       (Na)         (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Cu)       (F)       (Mu)       (Ni)       (Ag)       (Se)       (TI)       (V)       (Zn)       (Hg)       (K)       (Na)         (Dissolved Metals) <t< td=""><td>1 2</td><td>Temp (°F/°C)           23.9           23.9           24.0</td><td>Cond. (uS/cm) 728.0 729.0 734.0</td><td>D.O. (mg/L) 0.16 0.15 0.16</td><td>рН 6.24 6.24 6.24</td><td>ORP (mV) </td><td>Turbidity</td><td>DTW</td><td>Ferrous iron</td><td></td></t<>	1 2	Temp (°F/°C)           23.9           23.9           24.0	Cond. (uS/cm) 728.0 729.0 734.0	D.O. (mg/L) 0.16 0.15 0.16	рН 6.24 6.24 6.24	ORP (mV) 	Turbidity	DTW	Ferrous iron	
5       (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX)       WA       OR       OR         (8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA       OR       OR         (PH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (CI) (SO4) (NO3) (NO2) (F)       I       OR       I         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)       I       I       I       I         (Total Cyanide) (WAD Cyanide) (Free Cyanide)       I       (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Hg) (K) (Na)       I         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)       VOC (Boeing short list)         VOC (Boeing short list)       I       I       I       I         Duplicate Super No(s):	1 2 3	Temp (°F/°C)           23.9           23.9           24.0	Cond. (uS/cm) 728.0 729.0 734.0	D.O. (mg/L) 0.16 0.15 0.16	рН 6.24 6.24 6.24	ORP (mV) 19.1 18.9 18.4	Turbidity	DTW	Ferrous iron	
5       (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX)       WA       OR       OR         (8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA       OR       OR         (PH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (CI) (SO4) (NO3) (NO2) (F)       I       OR       I         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)       I       I       I       I         (Total Cyanide) (WAD Cyanide) (Free Cyanide)       I       (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Hg) (K) (Na)       I         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)       VOC (Boeing short list)         VOC (Boeing short list)       I       I       I       I         Duplicate Super No(s):	1 2 3 4	Temp (°F/°C)           23.9           23.9           24.0           24.0	Cond. (uS/cm) 728.0 729.0 734.0 735.0	D.O. (mg/L) 0.16 0.15 0.16 0.16	<b>pH</b> 6.24 6.24 6.24 6.24	ORP (mV) 19.1 18.9 18.4 18.0	Turbidity (NTU)	DTW	Ferrous iron	
(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)       (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others	1 2 3 4 Average:	Temp (°F/°C)           23.9           23.9           24.0           24.0	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16	<b>pH</b> 6.24 6.24 6.24 6.24 6.24	ORP (mV) 19.1 18.9 18.4 18.0 18.6	Turbidity (NTU) 	DTW (ft)	Ferrous iron (Fe II)	
1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others         Duplicate Sample No(s):	1 2 3 4 Average:	Temp (°F/°C)           23.9           23.9           24.0           24.0           24.0           24.0           24.0	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 LOWED PE	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap	Turbidity (NTU) 	DTW (ft)	Ferrous iron (Fe II)	Observations
(Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others         Duplicate Sample No(s):         Comments:	1 2 3 4 Average:	Temp (°F/°C) 23.9 23.9 24.0 24.0 24.0 24.0 24.0 (8260) (8010	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 LOWED PE WTPH-G) (1	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-Gx)	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Observations
Image: Constraint of the second se	1 2 3 4 Average: <b>QUANTITY</b> 5	Temp (°F/°C)           23.9           23.9           23.9           24.0           24.0           24.0           24.0           (8260)           (8010)           (8270D)           (PH)           (Condu	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N kH) (NWTPH ctivity) (TDS	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 UOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be	pH 6.24 6.24 6.24 6.24 6.24 6.24 8.24 R.BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	Ferrous iron (Fe II)	Observations
(Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others         Duplicate Sample No(s):         Comments:	1 2 3 4 Average: <b>QUANTITY</b> 5	Temp (°F/°C)           23.9           23.9           23.9           24.0           24.0           24.0           24.0           (8260)           (8010)           (8270D)           (PH)           (COD)           (TOC)	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 UOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiee	pH 6.24 6.24 6.24 6.24 6.24 6.24 6.24 8.24 6.24 8.24 6.24 7.25 8.25 8.25 8.25 8.25 8.25 8.25 8.25 8	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	Ferrous iron (Fe II)	Observations
VOC (Boeing short list)       Methane Ethane Ethene Acetylene       others   Duplicate Sample No(s):  Comments:	1 2 3 4 Average: <b>QUANTITY</b> 5	Temp (°F/°C)           23.9           23.9           23.9           24.0           24.0           24.0           24.0           (8260)           (8010)           (8270D)           (PA)           (COD)           (Total Cyanid)	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N XH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cyz	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 UWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-GX) H-DX) (TPH OD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C NO2)	DTW (ft)	Ferrous iron (Fe II)	Observations OBSERVATIONS OR
Methane Ethane Ethene Acetylene   Methane Ethane Ethene Acetylene   Image: Stream of the stream	1 2 3 4 Average: <b>QUANTITY</b> 5	Temp (°F/°C)           23.9           23.9           23.9           24.0           24.0           24.0           24.0           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (F	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 UVTPH-G) (I -D) (NWTP) ) (TSS) (B0) ) (Total Kiec anide) (Free Ba) (Be) (Ca)	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)           alysis below)           WA           WA           (NO2)           (F)	Observations OB Control Contro
others       Duplicate Sample No(s):       Comments:	1 2 3 4 Average: <b>QUANTITY</b> 5	Temp (°F/°C)           23.9           23.9           23.9           24.0           24.0           24.0           24.0           (8260)           (8010)           (8260)           (8010)           (8270D)           (PA)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS 2) (Total PO4 e) (WAD Cya c) (As) (Sb) (F etals) (As) (Sb)	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 UVTPH-G) (I -D) (NWTP) ) (TSS) (B0) ) (Total Kiec anide) (Free Ba) (Be) (Ca)	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)           alysis below)           WA           WA           (NO2)           (F)	Observations OB Control Contro
Duplicate Sample No(s): Comments:	1 2 3 4 Average: <b>QUANTITY</b> 5	Temp (°F/°C)           23.9           23.9           23.9           24.0           24.0           24.0           24.0           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Mic           VOC (Boein)	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N XH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 (Journey Contemport (Janual	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)           alysis below)           WA           WA           (NO2)           (F)	Observations OB Control Contro
Duplicate Sample No(s): Comments:	1 2 3 4 Average: <b>QUANTITY</b> 5	Temp (°F/°C)           23.9           23.9           23.9           24.0           24.0           24.0           24.0           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Mic           VOC (Boein)	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N XH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 (Journey Contemport (Janual	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)           alysis below)           WA           WA           (NO2)           (F)	Observations OB Control Contro
Comments:	1 2 3 4 Average: <b>QUANTITY</b> 5	Temp (°F/°C)           23.9           23.9           23.9           24.0           24.0           24.0           24.0           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Mic           VOC (Boein)	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N XH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 (Journey Contemport (Janual	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)           alysis below)           WA           WA           (NO2)           (F)	Observations OB Control Contro
Comments:	1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C)           23.9           23.9           24.0           24.0           24.0           24.0           24.0           (°E/°C)           23.9           24.0           24.0           (°E/°C)           (°E/°C)           (°E/°C)           (°E/°C)           (°E/°C)           (°E/°C)           (°E/°C)           (°E/°C)           (State           (8260)           (8010)           (8270D)           (PA)           (COD)           (TOC)           (Dissolved M           VOC           (Boein)           Methane Eth </td <td>Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N XH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (Fetals) (As) (Sb) g short list)</td> <td>D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 (Journey Contemport (Janual Contemport (Janual</td> <td>pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)</td> <td>ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I</td> <td>Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil &amp; Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N</td> <td>DTW (ft)</td> <td>Ferrous iron (Fe II)           alysis below)           WA           WA           (NO2)           (F)</td> <td>Observations OB Control Contro</td>	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N XH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 (Journey Contemport (Janual	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)           alysis below)           WA           WA           (NO2)           (F)	Observations OB Control Contro
	1 2 3 4 Average:	Temp (°F/°C)           23.9           23.9           23.9           24.0           24.0           24.0           24.0           24.0           (8260)           (8010)           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Methane Ethen)           others	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N XH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 (Journey Contemport (Janual	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)           alysis below)           WA           WA           (NO2)           (F)	Observations OB Control Contro
Signature: SKB Date: 8/15/2018	1 2 3 4 Average:	Temp (°F/°C)           23.9           23.9           23.9           24.0           24.0           24.0           24.0           24.0           (8260)           (8010)           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Methane Ethen)           others	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N XH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 (Journey Contemport (Janual	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	Ferrous iron (Fe II)           alysis below)           WA           WA           (NO2)           (F)	Observations OB Control Contro
	1 2 3 4 Average:	Temp (°F/°C)           23.9           23.9           23.9           24.0           24.0           24.0           24.0           (8260)           (8010)           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Methane Ethane)           others	Cond. (uS/cm) 728.0 729.0 734.0 735.0 731.5 NALYSIS AL 0) (8020) (N XH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (Fetals) (As) (Sb) g short list)	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.16 (Journey Contemport (Janual	pH 6.24 6.24 6.24 6.24 6.24 6.24 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 19.1 18.9 18.4 18.0 18.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           glicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (Ni) (A           (Mg) (Mn) (Ni) (A	DTW (ft)	Ferrous iron (Fe II)           alysis below)           WA           WA           (NO2)           (F)	Observations OB Control Contro



Project Name	2:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 15 /2018@	1145		
Sample Num	ber:	RGW191D-	180815		Weather:	70s smoky			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Condition	n:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before F	Purging (ft)	3.21	Time:	1110	Flow through cel	l vol.		GW Meter No.(s	heron 3
Begin Purge:	Date/Time:	8/15 /2018	1115	End Purge:	Date/Time:	8/15 /2018 @	1138	Gallons Purged:	0.25
Purge water di	sposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	$(^{\circ}F/^{\circ}C)$	(uS/cm)	(mg/L)	4 f 4	(mV)	(NTU) lings within the fo	(ft)	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3  ft	through cell	
1118	24.5	533.0	0.33	6.50	10.3	LOW	3.21	-	
1121	24.7	510.0	0.27	6.46	10.0		3.21		
1124	25.0	480.3	0.23	6.50	4.8				
1127	25.3	452.5	0.18	6.48	-2.7				
1130	25.4	451.9	0.18	6.49	-2.8		·		
1133	25.3	442.1	0.16	6.49	-6.2		·		
1136	25.2	431.3	0.16	6.49	-8.6				
1150	23.2	431.5	0.10	0.49	-8.0				
SAMPLE COI	LECTION D								
Sample Collec			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procedu	ure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerical	l Order)	Other							
	<i>,</i>		sheen, etc.):	CLEAR COI	LORLESS NO/NS	SLIGHT EFFERV	ENSENCE		
Sample Descri	ption (color, t	urbidity, odor,	_					Ferrous iron	Comments/
	<i>,</i>		b.o. (mg/L)	CLEAR COI	LORLESS NO/NS ORP (mV)	SLIGHT EFFERV Turbidity (NTU)	ENSENCE DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	ption (color, t	urbidity, odor,	D.O.		ORP	Turbidity	DTW		
Sample Descri Replicate	ption (color, t Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity	DTW		
Sample Descri Replicate	Temp (°F/°C) 25.2	urbidity, odor, Cond. (uS/cm) 428.3	D.O. (mg/L) 0.15	<b>рН</b> 6.48	ORP (mV) 	Turbidity	DTW		
Sample Descri Replicate	tion (color, t Temp (°F/°C) 25.2 25.3	Cond. (uS/cm) 428.3 427.9	D.O. (mg/L) 0.15 0.15	рН 6.48 6.48	ORP (mV) -9.0 -9.0	Turbidity	DTW		
Sample Descri Replicate	ption (color, t Temp (°F/°C) 25.2 25.3 25.2	Cond. (uS/cm) 428.3 427.9 424.8	D.O. (mg/L) 0.15 0.15 0.15	рН 6.48 6.48 6.51	ORP (mV) -9.0 -9.0 -10.7	Turbidity	DTW		
Sample Descri Replicate 1 2 3 4 Average:	ption (color, t Temp (°F/°C) 25.2 25.3 25.2 25.2 25.2 25.2	Cond. (uS/cm) 428.3 427.9 424.8 422.6 425.9	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15	<b>pH</b> 6.48 6.48 6.51 6.50 6.49	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0	Turbidity (NTU) 	DTW (ft)	(Fe II)	
Sample Descri Replicate 1 2 3 4 Average: QUANTITY	ption (color, t Temp (°F/°C) 25.2 25.2 25.2 25.2 25.2 25.2 25.2 25.2 25.2 25.2 25.2	Cond. (uS/cm) 428.3 427.9 424.8 422.6 422.6 425.9 NALYSIS AI	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 0.15	pH 6.48 6.48 6.51 6.50 6.49 R BOTTLE	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5	ption (color, t Temp (°F/°C) 25.2 25.3 25.2 25.2 25.2 25.2 25.2 25.2 <b>TYPICAL A</b> (8260) (8010	Cond. (uS/cm) 428.3 427.9 424.8 422.6 425.9 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (1	pH 6.48 6.48 6.51 6.50 6.49 <b>R BOTTLE</b> NWTPH-GX)	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX)	Turbidity (NTU) 	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5	ption (color, t Temp (°F/°C) 25.2 25.3 25.2 25.2 25.2 25.2 TYPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm) 428.3 427.9 424.8 422.6 425.9 NALYSIS AI 0) (8020) (N MH) (NWTPH	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (I I-D) (NWTP	pH 6.48 6.51 6.50 6.49 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX) -HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write n	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5	ption (color, t Temp (°F/°C) 25.2 25.3 25.2 25.2 25.2 25.2 25.2 TYPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm) 428.3 427.9 424.8 422.6 422.6 425.9 NALYSIS AI 0) (8020) (N M) (NWTPH ctivity) (TDS	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (1 I-D) (NWTP 5) (TSS) (B6	pH 6.48 6.51 6.50 6.49 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX) -HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp           (°F/°C)           25.2           25.3           25.2           25.2           25.2           25.2           25.2           25.2           25.2           25.2           25.2           25.2           (8260)         (8010)           (8270D)         (PA)           (pH)         (Condut           (COD)         (TOC)           (Total Cyanid)	Cond. (uS/cm) 428.3 427.9 424.8 422.6 422.6 425.9 NALYSIS AI 0) (8020) (N XH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (I I-D) (NWTP G) (TSS) (Be c) (Total Kiece anide) (Free C)	pH <u>6.48</u> <u>6.51</u> <u>6.50</u> <u>6.49</u> <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen) Cyanide)	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX) -HCID) (8081) ity) (Alkalinity) (NH3) (NO3/1	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gru (HCO3/CO3) (CI NO2)	DTW (ft)	(Fe II)	Observations OB OR
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rtion (color, t Temp (°F/°C) 25.2 25.2 25.2 25.2 25.2 25.2 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (9H) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 428.3 427.9 424.8 422.6 422.6 425.9 NALYSIS AI 0) (8020) (N AH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (I)	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (I H-D) (NWTP G) (TSS) (BC A) (Total Kiec anide) (Free Ba) (Be) (Ca)	pH 6.48 6.48 6.51 6.50 6.49 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX) -HCID) (8081) ity) (Alkalinity) o (NH3) (NO3/f (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations OB Control Contro
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp           (°F/°C)           25.2           25.3           25.2           25.2           25.2           25.2           25.2           25.2           25.2           25.2           25.2           25.2           25.2           25.2           25.2           (8260)           (8010)           (8270D)           (PA)           (Condu           (COD)           (Total Cyanid)           (Dissolved Metals)	Cond. (uS/cm) 428.3 427.9 424.8 422.6 425.9 NALYSIS AI 0) (8020) (N AH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (I etals) (As) (Sb)	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (I H-D) (NWTP G) (TSS) (BC A) (Total Kiec anide) (Free Ba) (Be) (Ca)	pH 6.48 6.48 6.51 6.50 6.49 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX) -HCID) (8081) ity) (Alkalinity) o (NH3) (NO3/f (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations OB OR
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ption (color, t Temp (°F/°C) 25.2 25.3 25.2 25.2 25.2 25.2 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (0) (TOC) (Total Cyanid (Total Metals) (Dissolved Metals) VOC (Boein	Cond. (uS/cm) 428.3 427.9 424.8 422.6 425.9 NALYSIS AI 0) (8020) (N AH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (I etals) (As) (Sb)	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (I I-D) (NWTP G) (TSS) (BC C) (TSS) (BC C) (Total Kiec anide) (Free C) Ba) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.48 6.48 6.51 6.50 6.49 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX) -HCID) (8081) ity) (Alkalinity) o (NH3) (NO3/f (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations OB Control Contro
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ption (color, t Temp (°F/°C) 25.2 25.3 25.2 25.2 25.2 25.2 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (0) (TOC) (Total Cyanid (Total Metals) (Dissolved Metals) VOC (Boein	Cond. (uS/cm) 428.3 427.9 424.8 422.6 425.9 NALYSIS AI 0) (8020) (N AH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb g short list)	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (I I-D) (NWTP G) (TSS) (BC C) (TSS) (BC C) (Total Kiec anide) (Free C) Ba) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.48 6.48 6.51 6.50 6.49 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX) -HCID) (8081) ity) (Alkalinity) o (NH3) (NO3/f (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations OB Control Contro
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ption (color, t Temp (°F/°C) 25.2 25.3 25.2 25.2 25.2 25.2 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (0) (TOC) (Total Cyanid (Total Metals) (Dissolved Metals) VOC (Boein	Cond. (uS/cm) 428.3 427.9 424.8 422.6 425.9 NALYSIS AI 0) (8020) (N AH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb g short list)	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (I I-D) (NWTP G) (TSS) (BC C) (TSS) (BC C) (Total Kiec anide) (Free C) Ba) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.48 6.48 6.51 6.50 6.49 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX) -HCID) (8081) ity) (Alkalinity) o (NH3) (NO3/f (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations OB Control Contro
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ption (color, t Temp (°F/°C) 25.2 25.3 25.2 25.2 25.2 25.2 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (0) (TOC) (Total Cyanid (Total Metals) (Dissolved Metals) VOC (Boein	Cond. (uS/cm) 428.3 427.9 424.8 422.6 425.9 NALYSIS AI 0) (8020) (N AH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb g short list)	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (I I-D) (NWTP G) (TSS) (BC C) (TSS) (BC C) (Total Kiec anide) (Free C) Ba) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.48 6.48 6.51 6.50 6.49 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX) -HCID) (8081) ity) (Alkalinity) o (NH3) (NO3/f (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	remp (°F/°C) 25.2 25.3 25.2 25.2 25.2 25.2 25.2 25.2	Cond. (uS/cm) 428.3 427.9 424.8 422.6 425.9 NALYSIS AI 0) (8020) (N AH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb g short list)	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (I I-D) (NWTP G) (TSS) (BC C) (TSS) (BC C) (Total Kiec anide) (Free C) Ba) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.48 6.48 6.51 6.50 6.49 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX) -HCID) (8081) ity) (Alkalinity) o (NH3) (NO3/f (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	remp (°F/°C) 25.2 25.3 25.2 25.2 25.2 25.2 25.2 25.2	Cond. (uS/cm) 428.3 427.9 424.8 422.6 425.9 NALYSIS AI 0) (8020) (N AH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb g short list)	D.O. (mg/L) 0.15 0.15 0.15 0.15 0.15 0.15 LOWED PE WTPH-G) (I I-D) (NWTP G) (TSS) (BC C) (TSS) (BC C) (Total Kiec anide) (Free C) Ba) (Be) (Ca) ) (Ba) (Be) (Ca)	pH 6.48 6.48 6.51 6.50 6.49 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) -9.0 -9.0 -10.7 -11.1 -10.0 TYPE (Circle ap (BTEX) -HCID) (8081) ity) (Alkalinity) o (NH3) (NO3/f (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations



Event: Quarter		Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/15 /2018@	1157		
Sample Nurr	ber:	RGW192S-	-		Weather:	HAZY 80S			
Landau Repi	-	CEB			-				
WATER LEV	FI/WFII/PI	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	3.48	Time:	-	Flow through cel			GW Meter No.(s	1
Begin Purge:					-	8/ 15 /2018 @	1147	Gallons Purged:	
Purge water d			55-gal Drum	Ĕ.	Storage Tank	Ground		SITE TREATMI	
	-		-						
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa	ls: Stablizatio	on of Parame		e consecutive rea	dings within the fo	ollowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1130	23.6	571.0	0.18	6.03	50.6	LOW	3.49		
1133	23.6	567.0	0.21	6.04	48.2		3.47		
1136	23.6	560.0	0.26	6.04	45.6		3.48		
1139	23.7	556.0	0.30	6.04	43.8				
							·		
1142	23.7	551.0	0.35	6.04	41.7		·		
1145	23.7	549.0	0.39	6.04	40.1		·		
1147	23.7	548.0	0.40	6.04	39.3				
SAMPLE CO	LLECTION D								
Sample Collec	cted With:		Bailer			DED BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica		Other				_			
Sample Descr	iption (color, t	urbidity, odor	, sheen, etc.):	CLEAR CO	LORLESS NO/N	5			
Replicate	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	(°F/°C)	(uS/cm)	(mg/L)	pm	(mV)	(NTU)	(ft)	(Fe II)	Observations
1	23.7	548.0	0.42	6.04	39.0				
2	23.7	548.0	0.42	6.04	38.6				
							·		
3	23.7	548.0	0.43	6.04	38.5		·		
4	23.7	547.0	0.43	6.04	38.2				
Average:	23.7	547.8	0.43	6.04	38.6	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LOWED PE	ER BOTTLE	TYPE (Circle ag	plicable or write	non-standard ar	nalysis below)	
5	( <b>8260</b> ) (8010	)) (8020) (N	WTPH-G) (	NWTPH-Gx)	(BTEX)	-		WA 🗆	OR 🗌
	(8270D) (PA	H) (NWTPH	I-D) (NWTI	PH-Dx) (TPH	H-HCID) (8081)	(8141) (Oil & G	rease)	WA 🗆	OR 🗆
	(pH) (Condu	ctivity) (TD	S) (TSS) (B	OD) (Turbio	dity) (Alkalinity)	(HCO3/CO3) (C	Cl) (SO4) (NO	3) (NO2) (F)	
1					a) (NH3) (NO3/	NO2)			
		e) (WAD Cy							
						Pb) (Mg) (Mn) (1			
			o) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (Pl	o) (Mg) (Mn) (Ni) (	(Ag) (Se) (TI) (V	) (Zn) (Hg) (K) (N	a) (Hardness) (Silica
	VOC (Boein Methane Eth	g short list) ane Ethene Ao	retulene						
	wichiane Elli	and Eulelle A							
	others								

Duplicate Sample No(s):

Comments:

Signature: CEB



Event:	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
		Quarterly A	ugust 2018		Date/Time:	8/ 15 /2018@	1120		
Sample Nur	nber:	RGW193S-	180815		Weather:	70s smoky			
Landau Repr	resentative:	SRB			-				
WATER LEV	EL/WELL/PU	<b>IRGE DATA</b>							
Well Conditio		Secure (YES)	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	4.58	Time:	-	Flow through cel	l vol.		GW Meter No.(s	heron 3
Begin Purge:	0 0 0		1050		•	8/15 /2018 @	1102	Gallons Purged:	
Purge water d	isposed to:		55-gal Drum	Ĕ.	Storage Tank	Ground		SITE TREATM	
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa	ls: Stablizatio	on of Parame		e consecutive read	dings within the fo	llowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1053	22.1	1279.0	0.21	6.45	24.9	LOW	4.60		
1056	22.8	1294.0	0.19	6.40	23.6		4.60		
1059	23.2	1300.0	0.19	6.40	20.0		4.60		
							·		
	·						·		
	·								
a									
SAMPLE CO			Bailer		Pump/Pump Tupo				
Sample Collec Made of:		الیا Stainless Stee	_	PVC	Teflon	DED BLADDER	Other	Dedicated	
			_					Dedicated	
Decon Proced (By Numerica		Alconox Was	n L	Tap Rinse	DI Water	Dedicated			
	,		sheen etc.):		LORLESS NO/NS				
Sample Deser		urblany, odor,	<u></u>	CEL/ IIC CO					
Replicate	Temp	Cand	D.O.		0.000		DTW	Ferrous iron	Comments/
	(° <b>F</b> /° <b>C</b> )	Cond. (uS/cm)	(mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
1		(uS/cm)	(mg/L)	•	( <b>mV</b> )	•			
1	23.2	( <b>uS/cm</b> ) 1301.0	( <b>mg/L</b> ) 0.19	6.40	( <b>mV</b> ) 19.6	•			
2	23.2	(uS/cm) 1301.0 1301.0	( <b>mg/L</b> ) 0.19 0.19	6.40 6.40	(mV) 19.6 19.4	•			
2 3	23.2 23.2 23.2 23.2	(uS/cm) <u>1301.0</u> <u>1301.0</u> <u>1301.0</u>	(mg/L) 0.19 0.19 0.19	6.40 6.40 6.40	(mV) 19.6 19.4 19.1	•			
2	23.2 23.2 23.2 13.2	(uS/cm) 1301.0 1301.0 1301.0 1301.0	(mg/L) 0.19 0.19 0.19 0.19	6.40 6.40 6.40 6.40	(mV) <u>19.6</u> <u>19.4</u> <u>19.1</u> <u>19.0</u>	(NTU)			
2 3	23.2 23.2 23.2 23.2	(uS/cm) <u>1301.0</u> <u>1301.0</u> <u>1301.0</u>	(mg/L) 0.19 0.19 0.19	6.40 6.40 6.40	(mV) 19.6 19.4 19.1	•			
2 3 4 Average:	23.2 23.2 23.2 23.2 13.2 20.7	(uS/cm) 1301.0 1301.0 1301.0 1301.0 1301.0	(mg/L) 0.19 0.19 0.19 0.19 0.19	6.40 6.40 6.40 6.40 6.40	(mV) <u>19.6</u> <u>19.4</u> <u>19.1</u> <u>19.0</u> <u>19.3</u>	(NTU)	(ft)	(Fe II)	
2 3 4 Average:	23.2 23.2 23.2 13.2 20.7 <b>TYPICAL A</b>	(uS/cm) 1301.0 1301.0 1301.0 1301.0 1301.0	(mg/L) 0.19 0.19 0.19 0.19 0.19 LOWED PE	6.40 6.40 6.40 6.40 6.40 8.80TTLE	(mV) 19.6 19.4 19.1 19.0 19.3 TYPE (Circle ap	(NTU) 	(ft)	(Fe II)	Observations
2 3 4 Average: <b>QUANTITY</b>	23.2 23.2 23.2 13.2 20.7 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA	(uS/cm) 1301.0 1301.0 1301.0 1301.0 1301.0 NALYSIS AL 0) (8020) (N AH) (NWTPH	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 UOWED PE WTPH-G) (1 -D) (NWTP	6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH	(mV) <u>19.6</u> <u>19.4</u> <u>19.1</u> <u>19.0</u> <u>19.3</u> <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081)	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr	(ft)	(Fe II)	Observations
2 3 4 Average: QUANTITY 5	23.2 23.2 23.2 13.2 20.7 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (8270D) (PA	(uS/cm) <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> (0.0) <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u>	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (B	6.40 6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid	(mV) <u>19.6</u> <u>19.4</u> <u>19.1</u> <u>19.0</u> <u>19.3</u> <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity)	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C	(ft)	(Fe II)	Observations
2 3 4 Average: <b>QUANTITY</b>	23.2 23.2 23.2 13.2 20.7 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO	(uS/cm) <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> (0) (0) (0) (0) (0) (0) (0) (0)	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (B <sup>1</sup> ) ) (Total Kies	6.40 6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen	(mV) <u>19.6</u> <u>19.4</u> <u>19.1</u> <u>19.0</u> <u>19.3</u> <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081)	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C	(ft)	(Fe II)	Observations
2 3 4 Average: QUANTITY 5	23.2 23.2 23.2 13.2 20.7 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	(uS/cm) 1301.0 1301.0 1301.0 1301.0 1301.0 1301.0 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cyster)	(mg/L) 0.19 0.19 0.19 0.19 0.19 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece anide) (Free	<u>6.40</u> <u>6.40</u> <u>6.40</u> <u>6.40</u> <u>6.40</u> <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH- OD) (Turbid dahl Nitrogen Cyanide)	(mV) 19.6 19.4 19.1 19.0 19.3 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2)	(ft)	(Fe II)	Observations OB OR
2 3 4 Average: QUANTITY 5	23.2 23.2 23.2 13.2 20.7 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (COD) (TOd (Total Cyanid (Total Metals)	(uS/cm) 1301.0 1301.0 1301.0 1301.0 1301.0 1301.0 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya ) (As) (Sb) (F	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 (ISS) (B 0) (TSS) (B 0) (Total Kiec anide) (Free Ba) (Be) (Ca	6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	(mV) 19.6 19.4 19.1 19.0 19.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OR OR OR (K) (Na)
2 3 4 Average: QUANTITY 5	23.2 23.2 23.2 13.2 20.7 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (COD) (TOd (Total Cyanid (Total Metals)	(uS/cm) 1301.0 1301.0 1301.0 1301.0 1301.0 1301.0 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (R etals) (As) (Sb)	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 (ISS) (B 0) (TSS) (B 0) (Total Kiec anide) (Free Ba) (Be) (Ca	6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	(mV) 19.6 19.4 19.1 19.0 19.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB OR
2 3 4 Average: QUANTITY 5	23.2 23.2 23.2 13.2 20.7 TYPICAL A (8260) (8010 (8270D) (PA (9H) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	(uS/cm) 1301.0 1301.0 1301.0 1301.0 1301.0 1301.0 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (R etals) (As) (Sb)	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 (.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	(mV) 19.6 19.4 19.1 19.0 19.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
2 3 4 Average: QUANTITY 5	23.2 23.2 23.2 13.2 20.7 TYPICAL A (8260) (8010 (8270D) (PA (9H) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	(uS/cm) <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> (0) (8020) (N <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>C) (Total PO4</u> <u>e) (WAD Cya</u> <u>) (As) (Sb) (H</u> <u>etals) (As) (Sb)</u> <u>g short list)</u>	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 (.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	(mV) 19.6 19.4 19.1 19.0 19.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OR OR OR (K) (Na)
2 3 4 Average: QUANTITY 5	23.2 23.2 23.2 13.2 20.7 TYPICAL A (8260) (8010 (8270D) (PA (9H) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	(uS/cm) <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> (0) (8020) (N <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>C) (Total PO4</u> <u>e) (WAD Cya</u> <u>) (As) (Sb) (H</u> <u>etals) (As) (Sb)</u> <u>g short list)</u>	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 LOWED PE WTPH-G) (2 -D) (NWTP ) (TSS) (Be) ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	(mV) 19.6 19.4 19.1 19.0 19.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
2 3 4 Average: QUANTITY 5	23.2 23.2 23.2 13.2 20.7 TYPICAL A (8260) (8010 (8270D) (PA (9H) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	(uS/cm) <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> (0) (8020) (N <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>C) (Total PO4</u> <u>e) (WAD Cya</u> <u>) (As) (Sb) (H</u> <u>etals) (As) (Sb)</u> <u>g short list)</u>	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 LOWED PE WTPH-G) (2 -D) (NWTP ) (TSS) (Be) ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	(mV) 19.6 19.4 19.1 19.0 19.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
2 3 4 Average: QUANTITY 5 1	23.2 23.2 23.2 13.2 20.7 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	(uS/cm) <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> (0) (8020) (N <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>C) (Total PO4</u> <u>e) (WAD Cya</u> <u>) (As) (Sb) (H</u> <u>etals) (As) (Sb)</u> <u>g short list)</u>	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 LOWED PE WTPH-G) (2 -D) (NWTP ) (TSS) (Be) ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	(mV) 19.6 19.4 19.1 19.0 19.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
2 3 4 Average: QUANTITY 5 1 1 Duplicate San	23.2 23.2 23.2 13.2 20.7 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	(uS/cm) <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> (0) (8020) (N <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>C) (Total PO4</u> <u>e) (WAD Cya</u> <u>) (As) (Sb) (H</u> <u>etals) (As) (Sb)</u> <u>g short list)</u>	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 LOWED PE WTPH-G) (2 -D) (NWTP ) (TSS) (Be) ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	(mV) 19.6 19.4 19.1 19.0 19.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
2 3 4 Average: QUANTITY 5 1	23.2 23.2 23.2 13.2 20.7 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	(uS/cm) <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> <u>1301.0</u> (0) (8020) (N <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>NALYSIS AL</u> <u>0) (8020) (N</u> <u>C) (Total PO4</u> <u>e) (WAD Cya</u> <u>) (As) (Sb) (H</u> <u>etals) (As) (Sb)</u> <u>g short list)</u>	(mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 LOWED PE WTPH-G) (2 -D) (NWTP ) (TSS) (Be) ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.40 6.40 6.40 6.40 6.40 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	(mV) 19.6 19.4 19.1 19.0 19.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/f (Cr) (Cu) (Fe) (I	(NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)



	0.25
Landau Representative:       SRB         WATER LEVEL/WELL/PURGE DATA	0.25
WATER LEVEL/WELL/PURGE DATA         Well Condition:       Secure (YES)       Damaged (NO)       Describe:         DTW Before Purging (ft)       3.9       Time:       837       Flow through cell vol.       GW Meter No.(s'hero         Begin Purge:       Date/Time:       8/15       /2018       840       End Purge:       Date/Time:       8/15       /2018 @       900       Gallons Purged:	0.25
Well Condition:       Secure (YES)       Damaged (NO)       Describe:         DTW Before Purging (ft)       3.9       Time:       837       Flow through cell vol.       GW Meter No.(s hero         Begin Purge:       Date/Time:       8/15       /2018       840       End Purge:       Date/Time:       8/15       /2018 @       900       Gallons Purged:	0.25
DTW Before Purging (ft)       3.9       Time:       837       Flow through cell vol.       GW Meter No.(s'hero         Begin Purge:       Date/Time:       8/15       /2018       840       End Purge:       Date/Time:       8/15       /2018 @       900       Gallons Purged:	0.25
Begin Purge:       Date/Time:       8/ 15 /2018       840       End Purge:       Date/Time:       8/ 15 /2018 @       900       Gallons Purged:         Purge water disposed to:       Image: Storage Tank       Image: Storage Tank       Image: Storage Tank       Image: Storage Tank       Other       SITE TREATMENT         Time       Cond.       D.O.       pH       ORP       Turbidity       DTW       Internal Purge       Other         Time       (°F/°C)       (uS/cm)       (mg/L)       (mV)       (NTU)       (ft)       Volume (gal)       Other         Purge Goals:       Stablization of Parameters for three consecutive readings within the following limits       >/= 1 flow	0.25
Purge water disposed to:       55-gal Drum       Storage Tank       Ground       Other       SITE TREATMENT         Temp       Cond.       D.O.       pH       ORP       Turbidity       DTW       Internal Purge         Time       (°F/°C)       (uS/cm)       (mg/L)       (mV)       (NTU)       (ft)       Volume (gal)       O         Purge Goals: Stablization of Parameters for three consecutive readings within the following limits       >/= 1 flow	
Temp       Cond.       D.O.       pH       ORP       Turbidity       DTW       Internal Purge         Time       (°F/°C)       (uS/cm)       (mg/L)       (mV)       (NTU)       (ft)       Volume (gal)       O         Purge Goals: Stablization of Parameters for three consecutive readings within the following limits       >/= 1 flow	SYSTEM
Time(°F/°C)(uS/cm)(mg/L)(mV)(NTU)(ft)Volume (gal)CPurge Goals: Stablization of Parameters for three consecutive readings within the following limits>/= 1 flow	
Purge Goals: Stablization of Parameters for three consecutive readings within the following limits >/= 1 flow	Comments/ bservations
<u>843</u> <u>20.4</u> <u>829.0</u> <u>0.26</u> <u>6.14</u> <u>100.0</u> <u>LOW</u> <u>2.80</u>	
846 20.5 840.0 0.35 6.16 97.0 2.80	
<u>849</u> <u>20.8</u> <u>858.0</u> <u>0.36</u> <u>6.19</u> <u>85.2</u> <u>2.80</u>	
852 21.0 846.0 0.31 6.20 74.0	
855 21.0 844.0 0.28 6.20 73.0	
858 21.3 820.0 0.28 6.20 61.9	
SAMPLE COLLECTION DATA	
Sample Collected With: Bailer Pump/Pump Type DED BLADDER	
Made of: Distainless Steel PVC Teflon Polyethylene Other Dedicated	
Decon Procedure: 🗍 Alconox Wash 🗍 Tap Rinse 📄 DI Water 🗍 Dedicated	
(By Numerical Order) Other	
Sample Description (color, turbidity, odor, sheen, etc.): <u>SLIGHTLY GRAY AND TURBID NO/NS</u>	
	Comments/ bservations
1 21.3 818.0 0.26 6.20 60.8	
2 21.3 818.0 0.26 6.20 60.4	
3 21.3 816.0 0.29 6.20 60.0	
4 21.3 816.0 0.27 6.20 59.4	
Average: 21.3 817.0 0.27 6.20 60.2 #DIV/0!	
QUANTITY TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)	
5 (8260) (8010) (8020) (NWTPH G) (NWTPH $G_x$ ) (BTEX) WA $\Box$ OP	
5     (8260)     (8010)     (8020)     (NWTPH-G)     (NWTPH-Gx)     (BTEX)     WA     OR       (8270D)     (PAH)     (NWTPH-D)     (NWTPH-Dx)     (TPH-HCID)     (8081)     (8141)     (Oil & Grease)     WA     OR	
5         (8260)         (8010)         (8020)         (NWTPH-G)         (NWTPH-Gx)         (BTEX)         WA         OR           (8270D)         (PAH)         (NWTPH-D)         (NWTPH-Dx)         (TPH-HCID)         (8081)         (8141)         (Oil & Grease)         WA         OR           (pH)         (Conductivity)         (TDS)         (TSS)         (BOD)         (Turbidity)         (HCO3/CO3)         (Cl)         (NO3)         (NO2)         (F)	
(8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA	
(8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA       OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)       I       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)       I       (Total Cyanide) (WAD Cyanide) (Free Cyanide)       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I <td< td=""><td></td></td<>	
(8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA □ OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K)	(Na)
(8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA □ OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Ha)	(Na)
(8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA □ OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Ha)         VOC (Boeing short list)	(Na)
(8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA □ OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Ha)	(Na)
(8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA □ OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Ha)         VOC (Boeing short list)	(Na)
(8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA □ OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Ha)         VOC (Boeing short list)	(Na)
(8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA □ OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Ha)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene	(Na)
(8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA       OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)       1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)       (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Ha         VOC (Boeing short list)       Methane Ethene Acetylene         others	(Na)



Project Name	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 15 /2018@	1010		
Sample Num	ber:	RGW195S-	180815		Weather:	70s smoky			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	RGE DATA							
Well Conditio	n:	Secure (YES)	)	Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	2.44	Time:	930	Flow through cel	l vol.	_	GW Meter No.(s	heron 3
Begin Purge:	Date/Time:	8/15 /2018	940	End Purge:	Date/Time:	8/15 /2018 @	955	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /° <b>Ĉ</b> )	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%	n of Parame +/- 10%	ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	llowing limits < 0.3 ft	>/= 1 flow through cell	
943	20.3	807.0	0.15	6.26		LOW	2.44	un ough cen	
				·		LOW	·		
946	20.4	800.0	0.16	6.27	23.5		2.44		
949	20.6	796.0	0.17	6.28	20.1		2.44		
952	21.0	795.0	0.17	6.28	19.2				
							- <u> </u>		
SAMPLE CO	LLECTION D	ATA	<u> </u>						
Sample Collec	ted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	ı 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	h 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
C 1 D									
Sample Descr	iption (color, t	urbidity, odor,	sheen, etc.):	CLEAR CO	LORLESS NO/NS				
							DTW	Ferrous iron	Comments/
Replicate	iption (color, t Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	b.O. (mg/L)	CLEAR COI	LORLESS NO/NS ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	Temp	Cond.	D.O.		ORP	Turbidity			
Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 21.0	<b>Cond.</b> ( <b>uS/cm</b> ) 794.0	D.O. (mg/L) 0.17	<b>рН</b> 6.29	ORP (mV) 18.4	Turbidity			
Replicate 1 2	Temp           (°F/°C)           21.0           21.0	Cond. (uS/cm) 794.0 795.0	D.O. (mg/L) 0.17 0.18	рН 6.29 6.28	ORP (mV) 	Turbidity			
Replicate 1 2 3	Temp (°F/°C)           21.0           21.2	Cond. (uS/cm) 794.0 795.0 796.0	D.O. (mg/L) 0.17 0.18 0.17	рН 6.29 6.28 6.29	ORP (mV) 18.4 18.0 17.5	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C)           21.0           21.0           21.2           21.2	Cond. (uS/cm) 794.0 795.0 796.0 796.0	D.O. (mg/L) 0.17 0.18 0.17 0.17	<b>pH</b> 6.29 6.28 6.29 6.29	ORP (mV) 18.4 18.0 17.5 16.6	Turbidity (NTU)			
Replicate 1 2 3	Temp (°F/°C)           21.0           21.2	Cond. (uS/cm) 794.0 795.0 796.0	D.O. (mg/L) 0.17 0.18 0.17	рН 6.29 6.28 6.29	ORP (mV) 18.4 18.0 17.5	Turbidity			
Replicate 1 2 3 4 Average:	Temp (°F/°C)           21.0           21.0           21.2           21.2           21.1	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17	<b>pH</b> 6.29 6.28 6.29 6.29 6.29 6.29	ORP (mV) 18.4 18.0 17.5 16.6 17.6	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C)           21.0           21.0           21.2           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 LOWED PE WTPH-G) (1	pH 6.29 6.28 6.29 6.29 6.29 6.29 R BOTTLE NWTPH-GX)	ORP (mV) 18.4 18.0 17.5 16.6 17.6 <b>TYPE (Circle ap</b> (BTEX)	Turbidity (NTU) #DIV/0! plicable or write r	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           21.0           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N H) (NWTPH	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 0.17 LOWED PE WTPH-G) (1 -D) (NWTP	pH 6.29 6.28 6.29 6.29 6.29 8 BOTTLE NWTPH-GX) H-DX) (TPH	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (PA)           (pH)	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N .H) (NWTPH ctivity) (TDS	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 0.17 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (B	pH 6.29 6.28 6.29 6.29 6.29 6.29 8 BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (COD)           (TOC)	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 0.17 LOWED PE WTPH-G) (1 i-D) (NWTP ) (TSS) (Bi ) (Total Kiee	pH 6.29 6.28 6.29 6.29 6.29 6.29 8 BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           21.0           21.0           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)           (PA)           (pH)           (COD)           (Total Cyanid)	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cys	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 0.17 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free	pH 6.29 6.28 6.29 6.29 6.29 6.29 8. BOTTLE NWTPH-GX) H-DX) (TPH OD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           NO2)	(ft) mon-standard an ease) l) (SO4) (NO3	(Fe II)	Observations OB OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           21.0           21.0           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALVSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya o (As) (Sb) (f	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 0.17 LOWED PE WTPH-G) (( -D) (NWTP ) (TSS) (Bo ) (Total Kiec anide) (Free Ba) (Be) (Ca	pH 6.29 6.28 6.29 6.29 6.29 8 BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           21.0           21.0           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya (As) (Sb) (R etals) (As) (Sb	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 0.17 LOWED PE WTPH-G) (( -D) (NWTP ) (TSS) (Bo ) (Total Kiec anide) (Free Ba) (Be) (Ca	pH 6.29 6.28 6.29 6.29 6.29 8 BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           21.0           21.0           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya (As) (Sb) (R etals) (As) (Sb	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.29 6.28 6.29 6.29 6.29 8 BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)           21.0           21.0           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.29 6.28 6.29 6.29 6.29 8 BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           21.0           21.0           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Methane Ethane)	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.29 6.28 6.29 6.29 6.29 8 BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           21.0           21.0           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.29 6.28 6.29 6.29 6.29 8 BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           21.0           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Mathema Eth)           work           others	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.29 6.28 6.29 6.29 6.29 8 BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
Replicate         1         2         3         4         Average:         QUANTITY         5         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           21.0           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Mathema Eth)           work           others	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.29 6.28 6.29 6.29 6.29 8 BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 5 1 1 1 1 Duplicate San	Temp (°F/°C)           21.0           21.0           21.2           21.2           21.1           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Mathema Eth)           work           others	Cond. (uS/cm) 794.0 795.0 796.0 796.0 795.3 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.17 0.18 0.17 0.17 0.17 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.29 6.28 6.29 6.29 6.29 8 BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 18.4 18.0 17.5 16.6 17.6 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1) (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB  OR  OR  OR  (K) (Na)



Purge vater disposed to:         D         S 5-gal Drum         Storage Tank         G cound         Other         STET TREATMENT SYSTEM           Time         Temp         Cond         DAD.         PH         OR         Turbidity         DTW         Internal Purge         Comments/           Purge Goals: Stabilization of Parameters for three consecutive readings within the following limits         Comments/         Comments/         Comments/         Volume (group)         Set 1000         Volume (group)         Comments/           918         20.4         453.2         0.37         6.38         46.1         IOW         2.50         Comments/         Volume (group)         Comments/           924         21.1         454.5         0.30         6.55         41.1         2.50         Comments/           930         22.1         454.4         0.26         6.38         30.8         Comments/         Comments/           930         22.1         454.4         0.26         6.38         24.1         Comments/         Comments/           930         22.1         454.4         0.26         Comments/         Comments/         Comments/           940         Collected With:         Builer         PVC         Terb in         Polych	Project Nam	e:	Boeing Rent	ton		Project Number		0025217.099.0	99	
Landau Representative:       SRB         WATER LEVEL/WEIL/PERGE DATA         WATER LEVEL/WEIL/PERGE DATA         Begin Purge:       Data Chara         DWI Cloadition:       Secure (YES)         Data Characterization:       Data Characterization:         DWI School Purging (ft)       2.5         Time:       900         Progression:       Stepin Purge:         Data Characterization:       Stepin Purge:         Data Characterization:       Stepin Purge:         Data Characterization:       Stepin Purge:         Time:       Cand.       DAD.         Progression:       Gardina of Parameters for three consecutive readings within the following limits:       >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Event:		Quarterly A	ugust 2018		Date/Time:	8/ 15 /2018@	945		
WATCR LPVL2/WELP/RCE DATA           Well Condition:         Secure (YES)         Damaged (NO)         Describer:         GW Meter No.(s. heron 3           Depti Purge:         Dar/Time:         ½1.5         Z018         91.5         Ean Purge:         Dar/Time:         91.4         Galons Purged:         0.25           Purge water disposed to:         □         55-gal Drum         □         Sorage Tank         □         Ground         □         Other         STE TREATMENT SYSTEM         Other	Sample Num	nber:	RGW196D-	180815		Weather:	70s smoky			
Well condition:       Secure (YES)       Damaged (N)       Decrite:         DTW Bifore Purging (n)       2.5       Time:       900       Flow through call vol.       904       Gillons Purging       025         Purge water disposed u:       0       55-gal Durge:       0       Strange Tank       0       Couldens Purging       025         Purge water disposed u:       0       55-gal Durge:       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Landau Repr	resentative:	SRB							
Well condition:       Secure (YES)       Damaged (N)       Decrite:         DTW Bifore Purging (n)       2.5       Time:       900       Flow through call vol.       904       Gillons Purging       025         Purge water disposed u:       0       55-gal Durge:       0       Strange Tank       0       Couldens Purging       025         Purge water disposed u:       0       55-gal Durge:       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	WATER LEV	EL/WELL/PU	RGE DATA							
Begin Page         Date/Time:         8/15         /// 2018         9/15         Conter Time:         8/15         // 2018         9/15         Conter Time         0/15         Conter Time         0/15         Conter Time         0/15         Conter Time         0/15         Conter Time         Conter Time <t< td=""><td></td><td></td><td></td><td></td><td>Damaged (N</td><td>0)</td><td>Describe:</td><td></td><td></td><td></td></t<>					Damaged (N	0)	Describe:			
Purge valer disposed to:         D         55-gal Drun         D         Storage Tark         Ground         Other         STEE TREATMENT SYSTEM           Time         Temp         Cond.         D.O.         PH         ORP         Turbidity         DTW         Internal Purge         Comments/           Purge Goals: Stabilization of Parameters for three consecutive readings within the following limits         Solar         4.10         No.         P.10         Cond.         D.0.         Purge         Cond.         Comments/         Volume (2003)	DTW Before	Purging (ft)	2.5	Time:	900	Flow through cel	vol.		GW Meter No.(s	heron 3
Time         Temp (FYC)         Cond. (uSVcm)         D/O. (mgL)         PII         ORP (mV)         Turbidity (NTU)         DTW (N)         Internal Purge (n)         Comments/ Observations           47.5%         47.5%         47.10%         47.00%         (NU)         (2.3)         (10)         (10)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)         (2.1)	Begin Purge:	Date/Time:	8/15 /2018	915	End Purge:	Date/Time:	8/15 /2018 @	934	Gallons Purged:	0.25
Time         CF/C         (usVcm)         (ugL)         (nV)         (NTU)         (t)         (t)         Observations           918         20.4         453.2         0.37         6.38         46.1         LOW         2.50	Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Purge Gaales Stabilization of Parameters for three consecutive readings within the following finits by through cell           918         20.4         4532         0.37         6.638         46.1         LOW         <0.51         through cell           918         20.4         4532         0.37         6.638         46.1         LOW         2.50           921         20.5         454.5         0.30         6.33         44.1         2.50	Timo				рН				0	
918       20.4       453.2       0.37       6.38       46.1       LOW       2.50         921       20.5       454.5       0.35       6.37       44.5       2.50	Time			n of Parame	ters for three					Obser various
921       20.5       454.5       0.35       6.37       44.5       2.50         924       21.1       454.5       0.30       6.35       41.1       2.50         927       21.7       454.9       0.26       6.38       30.8		+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
924       211       454.5       0.30       6.35       41.1       2.50         927       21.7       454.9       0.26       6.38       30.8	918	20.4	453.2	0.37	6.38	46.1	LOW	2.50		
927       21.7       454.9       0.26       6.38       30.8	921	20.5	454.5	0.35	6.37	44.5		2.50		
927       21.7       454.9       0.26       6.38       30.8	924	21.1	454.5	0.30	6.35	41.1		2.50		
920       22.1       454.4       0.28       6.38       24.1         SAMPLE COLLECTION DATA         Sample Collected With:       Bailer       Pump/Pump Type       DED BLADDER         Construction       Data       Data       Data         Decon Procedure:       Alconox Wash       Tap Rinse       D IWater       Dedicated         Bosch Procedure:       Alconox Wash       Tap Rinse       D IWater       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       CLEAR COLORLESS NO/NS       Comments/       (fr)       (Fe II)       Comments/         1       22.2       454.3       0.25       6.39       23.0										
SAMPLE COLLECTION DATA         Sample Collected With:       Bailer       Pump/Pump Type       DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Dolyethylene       Other       Dedicated         By Numerical Order)       Other       Alconox Wash       Tap Rinse       D II Water       Dedicated         By Numerical Order)       Other       Alconox Wash       Tap Rinse       D II Water       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       CLEAR COLORLESS NO/NS       DTW       Ferrous iron       Comments/         1       22.2       454.3       0.25       6.39       23.0						·				
Sample Collected With:       Bailer       Pump/Pump Type DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Bay Numerical Order)       Other       Determined       Other       Dedicated       Determined       Determined         Sample Description (color, turbidity, odor, sheen, etc.):       CLEAR COLORLESS NO/NS       DTW       Ferrous iron       Comments/         Replicate       Temp Cond. (uS/cm)       (mg/L)       0.0, pH       ORP       Turbidity (NTU)       DTW       Ferrous iron       Comments/         1       22.2       454.3       0.25       6.39       23.7	930	22.1	454.4	0.28	6.38	24.1				
Sample Collected With:       Bailer       Pump/Pump Type DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Bay Numerical Order)       Other       Determined       Other       Dedicated       Determined       Determined         Sample Description (color, turbidity, odor, sheen, etc.):       CLEAR COLORLESS NO/NS       DTW       Ferrous iron       Comments/         Replicate       Temp Cond. (uS/cm)       (mg/L)       0.0, pH       ORP       Turbidity (NTU)       DTW       Ferrous iron       Comments/         1       22.2       454.3       0.25       6.39       23.7										
Sample Collected With:       Bailer       Pump/Pump Type DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Bay Numerical Order)       Other       Determined       Other       Dedicated       Determined       Determined         Sample Description (color, turbidity, odor, sheen, etc.):       CLEAR COLORLESS NO/NS       DTW       Ferrous iron       Comments/         Replicate       Temp Cond. (uS/cm)       (mg/L)       0.0, pH       ORP       Turbidity (NTU)       DTW       Ferrous iron       Comments/         1       22.2       454.3       0.25       6.39       23.7										
Sample Collected With:       Bailer       Pump/Pump Type DED BLADDER         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Bay Numerical Order)       Other       Determined       Other       Dedicated       Determined       Determined         Sample Description (color, turbidity, odor, sheen, etc.):       CLEAR COLORLESS NO/NS       DTW       Ferrous iron       Comments/         Replicate       Temp Cond. (uS/cm)       (mg/L)       0.0, pH       ORP       Turbidity (NTU)       DTW       Ferrous iron       Comments/         1       22.2       454.3       0.25       6.39       23.7										
Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Becon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated       Dedicated         By Numerical Order)       Other       Other       Dedicated       Dedicated       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       CLEAR COLORLESS NO/NS       DTW       Ferrous iron       Comments/         1       22.2       454.3       0.25       6.39       23.7										
Decon Procedure:       Alconox Wash       Tap Rinse       D I Water       Decicated         (By Numerical Order)       Other	-	ted With:				_				
Barple Description (color, turbidity, odor, sheen, etc.): CLEAR COLORLESS NO/NS         Replicate       Temp Cond. (uS/cm) (mg/L)       PH ORP Turbidity (NTU)       OTW Ferrous iron Comments/ (NTU)         1       22.2       454.3       0.25       6.39       23.7								U Other	Dedicated	
Sample Description (color, turbidity, odor, sheen, etc.):       CLEAR COLORLESS NO/NS         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       OTW       Ferrous iron       Comments/         1       22.2       454.3       0.25       6.39       23.7				h L	Tap Rinse	DI Water	Dedicated			
Replicate       Temp (*F/°C)       Cond. (uS/cm)       D.O. (mg/L)       pH       ORP (mV)       Turbidity (NTU)       DTW (Rt)       Ferrous iron (Fe II)       Comments/ Observations         1       22.2       454.3       0.25       6.39       23.7		,		1 ( )		ODI EGG NO NG				
(°F/°C)       (uS/cm)       (mgL)       (mV)       (NTU)       (ft)       (Fe II)       Observations         1       22.2       454.3       0.25       6.39       23.7	Sample Desci		urbianty, odor,	sheen, etc.):	CLEAK CU	LORLESS NO/INS				
2       22.1       454.3       0.24       6.39       23.0         3       22.2       454.4       0.25       6.39       22.6	Replicate				рН		•			
2       22.1       454.3       0.24       6.39       23.0         3       22.2       454.4       0.25       6.39       22.6	1	22.2	454.3	0.25	6.39	23.7				
3       22.2       454.4       0.25       6.39       22.6         4       22.2       454.4       0.24       6.39       22.2         Average:       22.2       454.4       0.25       6.39       22.9       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR          (8270D)       (PAH)       (NWTPH-D)       (NWTPH-JX)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR          (pH)       (Conductivity)       (TDS)       (TSS)       (BOD)       (Turbidity)       (Alkalinity)       (HCO3/CO3)       (Cl)       (S04)       (NO3)       (NO2)       (F)         1       (COD)       (Total PO4)       (Total Kiedahl Nitrogen)       (NH3)       (NO3/NO2)       (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Ca)       (Cd)       (Co)       (Ca)       (Cd)       (Co)       (Ca)       (Cb)       (Mg)       (Mn)       (Ni)       (Ag)       (B)       (A)       (A)										
4       22.2       454.4       0.24       6.39       22.9       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       5       (8260)       (8010)       (8020)       (NWTPH-Gx)       (BTEX)       WA       OR       OR         5       (8260)       (8010)       (8020)       (NWTPH-Gx)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       OR         6       (8270D)       (PAH)       (NWTPH-D)       (NWTPH-Gx)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       OR         6       (8270D)       (PAH)       (NWTPH-O)       (NWTPH-GX)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       OR       Interview         1       (COD)       (TOC)       (Total Kiedahl Nitrogen)       (NH3)       (NO3/NO2)       Interview						·				
Average:       22.2       454.4       0.25       6.39       22.9       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR										
QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)         5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-G)       (BTEX)       WA       OR         (8270D)       (PAH)       (NWTPH-D)       (NWTPH-Dx)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       OR         (8270D)       (PAH)       (NWTPH-D)       (NWTPH-Dx)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       OR         (PH)       (Conductivity)       (TDS)       (TSS)       (BOD)       (Turbidity)       (Alkalinity)       (HCO3/CO3)       (Cl)       (SO4)       (NO3)       (NO2)       (F)         1       (COD)       (TOC)       (Total Akiadah Nitrogen)       (NH3)       (NO3/NO2)       (Total Cyanide)       (Free Cyanide)         (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Zu)       (F)       (Mag)       (Mag)       (Se)       (TI)       (V)       (Zn)       (Hg)       (K)       (Na)         (Dissolved Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)	4	22.2	454.4	0.24	6.39	22.2				
5       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR	Average:	22.2	454.4	0.25	6.39	22.9	#DIV/0!			
(8270D)       (PAH)       (NWTPH-D)       (NWTPH-Dx)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR          (pH)       (Conductivity)       (TDS)       (TSS)       (BOD)       (Turbidity)       (Alkalinity)       (HCO3/CO3)       (Cl)       (SO4)       (NO3)       (NO2)       (F)         1       (COD)       (Total PO4)       (Total Kiedahl Nitrogen)       (NH3)       (NO3/NO2)         (Total Cyanide)       (WAD Cyanide)       (Free Cyanide)       (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Lu)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (TI)       (V)       (Zn)       (Hg)       (K)       (Na)         (Dissolved Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Cu)       (Fe)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (TI)       (V)       (Zn)       (Hg)       (K)       (Na)       (Hardness)       (Silica)         VOC       (Boeing short list)       Methane Ethene Acetylene	QUANTITY	TYPICAL A	NALYSIS AL	LOWED PE	R BOTTLE	TYPE (Circle ap	plicable or write n	on-standard an	alysis below)	
(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)         1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)       (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others	5	( <b>8260</b> ) (8010	)) (8020) (N	WTPH-G) (	NWTPH-Gx)	(BTEX)			WA 🗆	
1       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene		, , , ,	/ /	<i>,</i> , ,	, ,	, , , ,		,		OR 🗆
(Total Cyanide)       (WAD Cyanide)       (Free Cyanide)         (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Cu)       (Fe)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (Tl)       (V)       (Zn)       (Hg)       (K)       (Na)         (Dissolved Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Cu)       (Fe)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (Tl)       (V)       (Zn)       (Hg)       (K)       (Na)         VOC       (Boeing short list)       (Co)       (Cr)       (Cu)       (Fe)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (Tl)       (V)       (Zn)       (Hg)       (K)       (Na)       (Hardness)       (Silica)         VOC       (Boeing short list)		u / \			/ \	<b>,</b>		) (SO4) (NO3	) (NO2) (F)	
(Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         i         others	1	(COD) (TOC	) (Total PO4	/ /	<b>C</b> .	) (NH3) (NO3/N	102)			
(Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others         Duplicate Sample No(s):		(T 1 C 1	) (WAD C		Cyanide)					
VOC (Boeing short list)       Methane Ethane Ethene Acetylene       others   Duplicate Sample No(s):  Comments:						$(\mathbf{Cr})$ $(\mathbf{Cu})$ $(\mathbf{Ea})$ $(\mathbf{I})$	$(M_{\sigma})$ $(M_{n})$ $(M_{n})$	i) $(\Delta \sigma)$ (Sa) (T	$(\mathbf{V})$ $(\mathbf{Z}_n)$ $(\mathbf{U}_n)$	$(\mathbf{K})$ $(\mathbf{N}_{2})$
Methane Ethane Ethane Acetylene		(Total Metals)	(As) (Sb) (H	Ba) (Be) (Ca	) (Cd) (Co)					
Duplicate Sample No(s):Comments:		(Total Metals) (Dissolved M	(As) (Sb) (H etals) (As) (Sb)	Ba) (Be) (Ca	) (Cd) (Co)					
Duplicate Sample No(s):Comments:		(Total Metals) (Dissolved Metals) VOC (Boein	) (As) (Sb) (E etals) (As) (Sb) g short list)	Ba) (Be) (Ca) ) (Ba) (Be) (C	) (Cd) (Co)					
Duplicate Sample No(s):Comments:		(Total Metals) (Dissolved Metals) VOC (Boein	) (As) (Sb) (E etals) (As) (Sb) g short list)	Ba) (Be) (Ca) ) (Ba) (Be) (C	) (Cd) (Co)					
Comments:		(Total Metals) (Dissolved Metals) VOC (Boein	) (As) (Sb) (E etals) (As) (Sb) g short list)	Ba) (Be) (Ca) ) (Ba) (Be) (C	) (Cd) (Co)					
Comments:		(Total Metals) (Dissolved Metals) VOC (Boein Methane Eth	) (As) (Sb) (E etals) (As) (Sb) g short list)	Ba) (Be) (Ca) ) (Ba) (Be) (C	) (Cd) (Co)					
	Duplicate Con	(Total Metals) (Dissolved Metals) VOC (Boein Methane Eth others	) (As) (Sb) (E etals) (As) (Sb) g short list)	Ba) (Be) (Ca) ) (Ba) (Be) (C	) (Cd) (Co)					
Signature.         Date:         6/15/2018	-	(Total Metals) (Dissolved Metals) VOC (Boein Methane Eth others	) (As) (Sb) (H etals) (As) (Sb) g short list)	Ba) (Be) (Ca) ) (Ba) (Be) (C	) (Cd) (Co)					
	Comments:	(Total Metals) (Dissolved Metals) VOC (Boein Methane Eth others others	) (As) (Sb) (H etals) (As) (Sb) g short list)	Ba) (Be) (Ca) ) (Ba) (Be) (C	) (Cd) (Co)		) (Mg) (Mn) (Ni) (2	Ag) (Se) (Tl) (V)		



Project Nam	e:	Boeing Ren	ton		Project Number	r:		0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/15	/2018@			
Sample Nurr	ber:	RGW197S-	-		Weather:	CEB		933		
Landau Repr		CEB								
WATER LEV	EL/WELL/PU	URGE DATA								
Well Condition	on:	Secure (YES	)	Damaged (N	O)		Describe:			
DTW Before	Purging (ft)	2.14	Time:	901	Flow through ce	ll vol.			GW Meter No.(	s 1
Begin Purge:			904	End Purge:	Date/Time:		/2018 @	927	Gallons Purged:	
Purge water d	isposed to:		55-gal Drum	Ē.	Storage Tank		Ground	_	SITE TREATM	
-	Temp	Cond.	D.O.	рН	ORP	Тш	bidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	рп	(mV)		NTU)	(ft)	Volume (gal)	Observations
					consecutive rea			0	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV		- 10%	< 0.3 ft	through cell	
907	22.2	1042.0	0.15	6.72	49.3	LOW		2.13		-
910	22.6	1044.0	0.15	6.85	34.5			2.15		
913	23.0	1045.0	0.15	6.96	15.9			2.18		
916	23.0	1041.0	0.16	7.02	2.1					
919	23.0	1040.0	0.16	7.03	1.0					
919	25.0	1040.0	0.10	7.03	1.0					
SAMPLE CO	LLECTION I	DATA								
Sample Collec	cted With:		Bailer	<b>V</b>	Pump/Pump Type	DED B	BLADDER			
Made of:		Stainless Stee	el 🗖	PVC	Teflon		olyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	De De	edicated			
(By Numerica	l Order)	Other				~				
Sample Descr	iption (color, 1	urbidity, odor,	sheen, etc.):	CLEAR CO	LORLESS NO/N	S				
D 1' /	T	<b>C</b> 1	DO		OPP	T	1 • 1•4	DTW	Ferrous iron	Comments/
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)		rbidity NTU)	DTW (ft)	(Fe II)	Observations
1	23	1040.0	0.16	7.07	-10.2	,	/			
2	23.1	1040.0	0.16	7.07	-11.6					
3	23	1039.0	0.16	7.07	-12.4					
4	23	1040.0	0.16	7.07	-13.2					
Average:	23.0	1039.8	0.16	7.07	-11.9	#D	DIV/0!			
QUANTITY	TVPICAL A	NAT VSIS AT	I OWED PE	P ROTTI F	TYPE (Circle a	nlicabl	o or write i	non-standard ar	alveic below)	
5		(8020) (N				picable		ion-standaru ar	WA 🗆	OR 🗆
					H-HCID) (8081)	(8141)	(Oil & G	rease)	WA 🗆	OR 🗆
					dity) (Alkalinity					-
1					i) (NH3) (NO3					
		le) (WAD Cy								
	(Total Metals	) (As) (Sb) (	Ba) (Be) (Ca	u) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (M	g) (Mn) (1	Ni) (Ag) (Se) (	Γl) (V) (Zn) (H	g) (K) (Na)
	(Dissolved M	etals) (As) (St	) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P)	b) (Mg)	(Mn) (Ni) (	Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (I)	Na) (Hardness) (Silica
	VOC (Boein									
	Methane Eth	ane Ethene Ac	etylene							
	others									

Comments:

Signature: CEB



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/15 /2018@	1023		
Sample Nun	iber:	RGW245S-			Weather:	HAZY 80s			
Landau Rep	resentative:	CEB							
WATER LEV	EL/WELL/PI	<b>IRGE DATA</b>							
Well Conditio		Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	2.49	Time:	-	Flow through ce	l vol.		GW Meter No.(s	. 1
Begin Purge:					-	8/ 15 /2018 @	1012	Gallons Purged:	
Purge water d	isposed to:		55-gal Drum	ě	Storage Tank	Ground		SITE TREATM	
C	Тетр	Cond.	D.O.	рН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	pm	(mV)	(NTU)	(ft)	Volume (gal)	Observations
						dings within the fo		>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
954	20.9	812.0	0.16	6.90	19.0	LOW	2.26		
957	21.1	824.0	0.16	6.95	14.9		2.27		
1000	22.1	854.0	0.14	7.01	7.0		2.28		
1003	22.4	867.0	0.14	7.02	2.1				
1006	22.9	883.0	0.13	7.01	-7.7				
1009	22.9	885.0	0.13	7.01					
1009		865.0	0.15	7.01	-0.0				
					·		·	·	
Sample Colle	LLECTION E		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	_	Tap Rinse	DI Water				
(By Numerica		Other		rup runse					
			sheen, etc.):	CLEAR CO	LORLESS NO/N	5			
	I ()	,							
Replicate	Temp	Cond.	<b>D.O.</b>	pН	ORP	Turbidity	DTW	Ferrous iron	Comments/
	(° <b>F</b> /° <b>C</b> )	(uS/cm)	(mg/L)		( <b>mV</b> )	(NTU)	(ft)	(Fe II)	Observations
1	23	885.0	0.13	7.00	-9.3				
2	22.9	887.0	0.13	7.01	-9.9				
3	22.9	887.0	0.12	7.01	-10.5				
4	22.8	890.0	0.12	7.01	-11.1				
Average:	22.9	887.3	0.13	7.01	-10.2	#DIV/0!			
OUANTITY	TVPICAL A	NAT VSIS AT	I OWED PE	'R BOTTI F	TVPF (Circle a	plicable or write	non-standard ar	alveis holow)	
5		$\frac{1}{1} \frac{1}{1} \frac{1}$				plicable of write	non-stanuaru ar	WA 🗆	OR 🗆
						(8141) (Oil & G	rease)	WA 🗆	OR 🗆
						(HCO3/CO3) (0			
1	(COD) (TO	C) (Total PO4	4) (Total Kie	dahl Nitroger	n) (NH3) (NO3/	NO2)			
		le) (WAD Cy							
						Pb) (Mg) (Mn) (1			
			o) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P	b) (Mg) (Mn) (Ni) (	(Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (N)	Na) (Hardness) (Silica
	VOC (Boein Methane Eth	g short list) ane Ethene Ao	petvlene						
		and Eulelle A	Clylelle						
	others								

Duplicate Sample No(s):

Comments:

Signature: CEB P:\8888 - Boeing Renton\02 Data Management\2018\3Q2018\field data\Landau Files\AOC1.2.3\_8.15.18\_CEB.xlsx



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/15 /2018@	1107		
Sample Nur	ber:	RGW246S-	U U		Weather:	HAZY 80S			
Landau Repr		CEB							
WATER LEV	FI/WELL/PI	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before		2.55	Time:	-	Flow through ce			GW Meter No.(s	1
Begin Purge:				End Purge:	_	8/ 15 /2018 @	1055	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ĕ.	Storage Tank	Ground		SITE TREATM	
	•		-		-				
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa	ls: Stablizatio	on of Parame		e consecutive rea	dings within the fo	llowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1040	21.2	211.6	0.17	6.56	31.0	LOW	2.55		
1043	23.0	447.8	0.18	6.37	38.0		2.56		
1046	24.0	426.8	0.14	6.31	35.5		2.57		
1049	24.2	392.8	0.13	6.28	33.2				
							-		
1052	24.3	364.0	0.13	6.27	31.5				
SAMPLE CO									
Sample Collec	eted With:		Bailer			DED BLADDER		_	
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	,	Other							
Sample Descr	iption (color, t	urbidity, odor	, sheen, etc.):	CLEAR CO	LORLESS NO/N	S			
Replicate	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Ferrous iron	Comments/
1	(° <b>F</b> /° <b>Ĉ</b> )	(uS/cm)	( <b>mg/L</b> )	I	( <b>mV</b> )	(NTU)	(ft)	(Fe II)	Observations
1	24.3	358.4	0.12	6.25	30.9				
2	24.3	356.1	0.12	6.25	30.6				
3	24.3	352.6	0.13	6.25	30.6				
4	24.3	349.0	0.13	6.25	30.3				
Average:	24.3	354.0	0.13	6.25	30.6	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LOWED PE	R BOTTLE	TYPE (Circle a)	oplicable or write	non-standard ai	nalysis below)	
5	( <b>8260</b> ) (8010	)) (8020) (N	WTPH-G) (	NWTPH-Gx)	(BTEX)			WA 🗆	OR 🗌
						(8141) (Oil & G		WA 🗆	OR 🗆
						(HCO3/CO3) (C	Cl) (SO4) (NO	3) (NO2) (F)	
1					n) (NH3) (NO3)	/NO2)			
		$\frac{\text{le}}{(\text{WAD Cy})}$			$(C_r)$ $(C_r)$ $(E_c)$	$(\mathbf{D}\mathbf{h})$ $(\mathbf{M}\mathbf{a})$ $(\mathbf{M}\mathbf{n})$ $(\mathbf{M}\mathbf{n})$	$(\Lambda \alpha) (\Omega \alpha$	$T(X) (T_n) (U_n)$	$(\mathbf{K})$ (Nc)
						$\frac{(Pb) (Mg) (Mn) (l}{(Mg) (Mn) (Ni)}$			(K) (Na) (Hardness) (Silic
	VOC (Boein		,, ( <b>D</b> u) ( <b>D</b> C) ( <b>C</b>	u) (Cu) (CU)	$(\Box i) (\Box u) (I \Box) (I$	<i>, (116) (1111) (111) (</i>	······································	$(\mathbf{L})$ $(\mathbf{L})$ $(\mathbf{L})$ $(\mathbf{L})$	(a) (Hardiness) (Sille
		ane Ethene A	cetylene						
			*						
	others								
	nple No(s):								

Comments:

Signature: CEB



Project Name	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 15 /2018@	1315		
Sample Num	ber:	RGW188S-	180815		Weather:	70s smoky			
Landau Repr	-	SRB			-	-			
WATER LEV									
WATER LEV Well Condition		Secure (YES)	)	Damaged (N	0)	Describe:			
DTW Before I		4.1	, Time:	0	Flow through cel			GW Meter No.(s	heron 3
Begin Purge:			1245			8/15 /2018 @	1256	Gallons Purged:	1
Purge water di			55-gal Drum	Ē	Storage Tank	Ground		SITE TREATM	
i uige water u	1		-		-				
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	( )	· /		ters for three	( · )	lings within the fo	· · ·	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1248	21.1	510.0	0.11	6.19	22.9	LOW	4.10		
1251	21.0	513.0	0.12	6.22	21.0		4.10		
1254	21.4	519.0	0.11	6.25	17.7		4.10		
1231			0.11	0.25					
	·								
							- <u> </u>		
SAMPLE CO	LLECTION D	ATA							
Sample Collec	eted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica)	l Order)	Other							
	,	4					-		
Sample Descri	iption (color, t		sheen, etc.):	CLEAR COI	LORLESS SMAL	L PARTICULATE	S NO/NS		
	<b>I</b> ( )	urbidity, odor,	· · · -						Commental
Sample Descri	Temp	urbidity, odor, Cond.	D.O.	CLEAR COI	ORP	Turbidity	DTW	Ferrous iron (Fe II)	Comments/ Observations
Replicate	Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)			Ferrous iron (Fe II)	Comments/ Observations
Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 21.4	urbidity, odor, Cond. (uS/cm) 520.0	D.O. (mg/L) 0.12	<b>рН</b> 6.26	ORP (mV) 17.0	Turbidity	DTW		
Replicate	Temp (°F/°C)           21.4           21.4	urbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.26 6.26	ORP (mV) 17.0 16.6	Turbidity	DTW		
Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 21.4	urbidity, odor, Cond. (uS/cm) 520.0	D.O. (mg/L) 0.12	<b>рН</b> 6.26	ORP (mV) 17.0	Turbidity	DTW		
Replicate	Temp (°F/°C)           21.4           21.4	Cond. (uS/cm) 520.0 522.0	<b>D.O.</b> (mg/L) 0.12 0.11	<b>рН</b> 6.26 6.26	ORP (mV) 17.0 16.6	Turbidity	DTW		
Replicate	Temp (°F/°C)           21.4           21.4           21.8	Cond. (uS/cm) 520.0 522.0 523.0	D.O. (mg/L) 0.12 0.11 0.12	рН 6.26 6.26 6.27	ORP (mV) 17.0 16.6 16.0	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C)           21.4           21.4           21.4           21.9           21.6	Cond. (uS/cm) 520.0 522.0 523.0 524.0 522.3	D.O. (mg/L) 0.12 0.11 0.12 0.12 0.12	<b>pH</b> 6.26 6.26 6.27 6.27 6.27	ORP (mV) 17.0 16.6 16.0 15.5 16.3	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 21.4 21.4 21.4 21.8 21.9 21.6 TYPICAL A	Cond. (uS/cm) 520.0 522.0 523.0 524.0 522.3 NALYSIS AI	D.O. (mg/L) 0.12 0.11 0.12 0.12 0.12 0.12 LOWED PE	pH 6.26 6.26 6.27 6.27 6.27 6.27 8.BOTTLE	ORP (mV) 	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.4 21.4 21.8 21.9 21.6 TYPICAL A (8260) (8010	Cond. (uS/cm) 520.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.12 0.11 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1	pH 6.26 6.26 6.27 6.27 6.27 6.27 R BOTTLE NWTPH-Gx)	ORP (mV) 17.0 16.6 16.0 15.5 16.3 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0! plicable or write r	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.4           21.4           21.4           21.8           21.9           21.6           TYPICAL A           (8260)           (8010)           (8270D)	Cond. (uS/cm) 522.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N MH) (NWTPH	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 I-D) (NWTP	pH 6.26 6.27 6.27 6.27 6.27 R BOTTLE NWTPH-Gx) H-Dx) (TPH	ORP (mV) 17.0 16.6 15.5 16.3 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.4           21.4           21.4           21.8           21.9           21.6           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (Condu	Cond. (uS/cm) 520.0 522.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N MH) (NWTPH ctivity) (TDS	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (Be	pH 6.26 6.27 6.27 6.27 6.27 8.27 8.27 8.27 8.27 8.27 8.27 8.27 8	ORP (mV) 17.0 16.6 15.5 16.3 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.4           21.4           21.4           21.4           21.9           21.6           TYPICAL A           (8260)           (8010)           (8270D)           (PA)           (COD)           (TOC)	Cond. (uS/cm) 520.0 522.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N MH) (NWTPH ctivity) (TDS	D.O. (mg/L) 0.12 0.11 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (Bo	pH <u>6.26</u> <u>6.27</u> <u>6.27</u> <u>6.27</u> <u>6.27</u> <u>6.27</u> <u>8 BOTTLE</u> NWTPH-Gx) <u>H-Dx)</u> (TPH OD) (Turbid <u>Jahl Nitrogen</u> )	ORP (mV) 17.0 16.6 16.0 15.5 16.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3 1 1 1	Temp (°F/°C)           21.4           21.4           21.4           21.4           21.9           21.6           TYPICAL A           (8260)           (8010)           (8270D)           (PA)           (COD)           (Total Cyanid)	Cond. (uS/cm) 520.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N MH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy	D.O. (mg/L) 0.12 0.11 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (I I-D) (NWTP G) (TSS) (Be c) (Total Kiece anide) (Free	pH 6.26 6.27 6.27 6.27 6.27 8.27 8.27 8.27 8.27 8.27 8.27 8.27 8	ORP (mV) 	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3 1 1 1	Temp (°F/°C)           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.6           TYPICAL A           (8260)         (8010)           (8270D)         (PA)           (pH)         (Condu           (COD)         (TOC           (Total Cyanid)         (Total Metals)	Cond. (uS/cm) 522.0 522.0 522.0 522.0 522.0 522.0 522.0 522.3 NALYSIS AI 0) (8020) (N MH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (I)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (B0 (-) (Total Kiec anide) (Free Ba) (Be) (Ca	pH 6.26 6.27 6.27 6.27 6.27 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 17.0 16.6 16.0 15.5 16.3 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3 1 1 1	Temp (°F/°C)           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.6           TYPICAL A           (8260) (8010           (8270D) (PA           (pH) (Condu           (COD) (TOC           (Total Cyanid           (Dissolved Mi           VOC (Boein	Cond. (uS/cm) 522.0 522.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N hH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb g short list)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.26 6.27 6.27 6.27 6.27 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 17.0 16.6 16.0 15.5 16.3 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3 1 1 1	Temp (°F/°C)           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.6           TYPICAL A           (8260) (8010           (8270D) (PA           (pH) (Condu           (COD) (TOC           (Total Cyanid           (Dissolved Mi           VOC (Boein	Cond. (uS/cm) 520.0 522.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N AH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (I etals) (As) (Sb)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.26 6.27 6.27 6.27 6.27 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 17.0 16.6 16.0 15.5 16.3 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3 1 1 1	Temp (°F/°C)           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.6           TYPICAL A           (8260) (8010           (8270D) (PA           (pH) (Condu           (COD) (TOC           (Total Cyanid           (Dissolved Mi           VOC (Boein	Cond. (uS/cm) 522.0 522.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N hH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb g short list)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.26 6.27 6.27 6.27 6.27 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 17.0 16.6 16.0 15.5 16.3 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.8           21.9           21.6           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved M           VOC (Boein           Methane Eth	Cond. (uS/cm) 522.0 522.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N hH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb g short list)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.26 6.27 6.27 6.27 6.27 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 17.0 16.6 16.0 15.5 16.3 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.6           TYPICAL A           (8260) (8010           (8270D) (PA           (pH) (Condu           (COD) (TOC           (Total Cyanid           (Dissolved Mi           VOC (Boein	Cond. (uS/cm) 522.0 522.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N hH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb g short list)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (Be C) (Total Kiece anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.26 6.27 6.27 6.27 6.27 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 17.0 16.6 16.0 15.5 16.3 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.9           21.6           TYPICAL A           (8260)           (8010)           (8270D)           (PA)           (CDD)           (Total Cyanid)           (Total Metals)           (Dissolved Methane Eth)           others	Cond. (uS/cm) 522.0 522.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N hH) (NWTPH (ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1 etals) (As) (Sb g short list)	D.O. (mg/L) 0.12 0.11 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (B0 (1-D) (NWTP G) (TSS) (B0 (1-D) (NWTP) G) (TSS) (B0 (1-D) (1-D) (	pH 6.26 6.27 6.27 6.27 6.27 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 17.0 16.6 16.0 15.5 16.3 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.9           21.6           TYPICAL A           (8260)           (8010)           (8270D)           (PA)           (CDD)           (Total Cyanid)           (Total Metals)           (Dissolved Methane Eth)           others	Cond. (uS/cm) 522.0 522.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N MH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1) etals) (As) (Sb) g short list) ane Ethene Ac	D.O. (mg/L) 0.12 0.11 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (B0 (1-D) (NWTP G) (TSS) (B0 (1-D) (NWTP) G) (TSS) (B0 (1-D) (1-D) (	pH 6.26 6.27 6.27 6.27 6.27 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 17.0 16.6 16.0 15.5 16.3 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:  QUANTITY 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C)           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.9           21.6           TYPICAL A           (8260)           (8010)           (8270D)           (PA)           (CDD)           (Total Cyanid)           (Total Metals)           (Dissolved Methane Eth)           others	Cond. (uS/cm) 522.0 522.0 522.0 523.0 524.0 522.3 NALYSIS AI 0) (8020) (N MH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (1) etals) (As) (Sb) g short list) ane Ethene Ac	D.O. (mg/L) 0.12 0.11 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (B0 (1-D) (NWTP G) (TSS) (B0 (1-D) (NWTP) G) (TSS) (B0 (1-D) (1-D) (	pH 6.26 6.27 6.27 6.27 6.27 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 17.0 16.6 16.0 15.5 16.3 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations



Project Nam	e:	Boeing Rer	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/15 /2018@	1313		
Sample Num	ber:	RGW247S-	-		Weather:	HAZY 80S			
Landau Repr	esentative:	CEB							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio		Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	4.27	Time:	1241	Flow through ce	ll vol.		GW Meter No.(s	1
Begin Purge:			1243	End Purge:	-	8/ 15 /2018 @	1302	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum	Ē.	Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
			on of Parame	ters for three +/- 0.1 units		dings within the fo +/- 10%		>/= 1 flow through cell	
1246	21.2	456.8	0.14	6.17	56.0	., 10,10	4.60	viii ougii oon	
1249	22.0	249.8	0.17	6.31	43.9		4.35		
1252	23.3	482.7	0.22	6.37	37.2		4.35		
1255	23.8	491.7	0.21	6.38	34.3		4.38		
1258	25.0	502.0	0.20	6.40	30.1				
1301									
1304									
SAMPLE CO	LLECTION E	ОАТА							
Sample Collec			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	el 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Wa	sh 🗖	Tap Rinse	DI Water	Dedicated		<del>7</del> X	
(By Numerica	l Order)	D Other		-	4 <u>–</u> 1	<b>→X</b>			
Sample Descr	iption (color, t	urbidity, odor	, sheen, etc.):	CLEAR CO	LORLESS NO/N	S			
									<u> </u>
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	26.6	510.0	0.23	6.40	28.4				
2	26.3	514.0	0.23	6.41	27.7				
3	26.4	515.0	0.22	6.41	27.1				
4	26.5	515.0	0.23	6.42	26.6				
Average:	26.5	513.5	0.23	6.41	27.5	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LOWED PR	R BOTTLE	TYPE (Circle a)	oplicable or write i	1000-standard at	alvsis below)	
3		)) (8020) (N						WA 🗆	OR 🗆
	(8270D) (PA	H) (NWTPI	I-D) (NWTH	PH-Dx) (TPH	H-HCID) (8081)	(8141) (Oil & G	rease)	WA 🗆	OR 🗆
	(pH) (Condu	ctivity) (TD	S) (TSS) (B	OD) (Turbio	dity) (Alkalinity)	(HCO3/CO3) (C	Cl) (SO4) (NO	3) (NO2) (F)	
1	(COD) (TOO	C) (Total PO	4) (Total Kie	dahl Nitrogen	n) (NH3) (NO3	/NO2)			
	(Total Cyanid	e) (WAD Cy	vanide) (Free	Cyanide)					
						(Pb) (Mg) (Mn) (1			
			o) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P	b) (Mg) (Mn) (Ni) (	Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (N)	la) (Hardness) (Silica
	VOC (Boein								
	Methane Eth	ane Ethene A	cetylene						
	others								
L									
Duplicate San	nle No(s).								

Comments:

Signature: CEB



Project Nam	e:	Boeing Ren	iton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/15 /2018@	1243		
Sample Nun	nber:	RGW248I-	-		Weather:	HAZY			
Landau Rep	resentative:	CEB							
WATER LEV	EL/WELL/PU	URGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	4.02	Time:	1213	Flow through ce	l vol.		GW Meter No.(s	s 1
Begin Purge:			1214		-	8/ 15 /2018 @	1230	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum	Ē.	Storage Tank	Ground		SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)	-	( <b>mV</b> )	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
						dings within the fo		>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1217	21.7	500.0	0.27	6.22	60.4		4.06		
1220	23.2	535.0	0.22	6.13	61.9		4.08		
1223	24.6	566.0	0.20	6.26	47.1		4.08		
1226	25.2	575.0	0.20	6.29	39.9				
1229	25.2	576.0	0.20	6.29	38.8				
122)		570.0	0.20	0.2)	20.0				
	·								
	LLECTION E		<b>D</b> 11						
Sample Collec	cted With:		Bailer			DED BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Wa	sh 📋	Tap Rinse	DI Water	Dedicated			
(By Numerica		Other	1						
Sample Descr	iption (color, t	turbidity, odor	, sheen, etc.):	CLEAR CO	LORLESS NO/N	<b>b</b>			
Replicate	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Ferrous iron	Comments/
1	(° <b>F</b> /° <b>Ĉ</b> )	(uS/cm)	( <b>mg/L</b> )	I	( <b>mV</b> )	(NTU)	(ft)	(Fe II)	Observations
1	25.2	576.0	0.19	6.30	38.1				
2	25.3	576.0	0.20	6.30	37.5				
3	25.3	577.0	0.20	6.30	36.9				
				6.30	36.2				
4	25.3	577.0	0.21						
Average:	25.3	576.5	0.20	6.30	37.2	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LLOWED PE	R BOTTLE	TYPE (Circle aj	plicable or write	non-standard ar	nalysis below)	
3	( <mark>8260</mark> ) (8010	0) (8020) (N	WTPH-G) (	NWTPH-Gx)	(BTEX)			WA 🗆	OR 🗆
-						(8141) (Oil & G		WA 🗆	OR 🗆
						(HCO3/CO3) (C	Cl) (SO4) (NO	3) (NO2) (F)	
1	(COD) (TOO				a) (NH3) (NO3)	NO2)			
		$\frac{\text{le}}{(\text{WAD Cy})}$			(Cr) (C) (E-)		$\mathbf{X} = \left( \mathbf{A} \right) \left( \mathbf{C} \right) \left( \mathbf{C} \right)$	T1) (1) (7-) (1)	$(\mathbf{V})$ $(\mathbf{N}_{c})$
						$\frac{Pb}{(Mg)} (Mg) (Mn) (l)$			<u>g) (K) (Na)</u> Ja) (Hardness) (Silica
	VOC (Boein		,, (Da) (DC) (C	<i>(</i> ( <i>U</i> ) ( <i>U</i> )	(CI)(Cu)(IC)(F)	), (181 <u>8)</u> (1811) (181) (	11g) (5c) (11) (V	$j(\Sigma_{\rm II})(11g)(K)(1$	(interest) (Sille
		ane Ethene A	cetylene						
	others								

Comments:

Signature: CEB P:\8888 - Boeing Renton\02 Data Management\2018\3Q2018\field data\Landau Files\AOC1.2.3\_8.15.18\_CEB.xlsx



Project Name	e:	Boeing Rent	on		Project Number	r:	0025217.099.0	99	
Event:		Quarterly Au	ugust 2018		Date/Time:	8/ 15 /2018@	1250		
Sample Num	ber:	RGW249S-	180815		Weather:	70s smoky			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	n:	Secure (YES)		Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	3.99	Time:	1215	Flow through cel	l vol.		GW Meter No.(s	heron 3
Begin Purge:	Date/Time:	8/15 /2018	1220	End Purge:	Date/Time:	8/15 /2018 @	1245	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	ils: Stablizatio +/- 3%	n of Parame +/- 10%	ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	< 0.3  ft	>/= 1 flow through cell	
1223	21.6	611.0	0.20	6.22		LOW	3.99	un ough con	
						LOW	·		
1226	21.7	572.0	0.19	6.13	42.0		3.99		
1229	21.7	575.0	0.17	6.09	41.3		3.99		
1232	22.2	582.0	0.14	6.12	38.9				
1235	24.3	630.0	0.12	6.27	23.4		·		
1238	24.9	638.0	0.12	6.29	20.5		·		
1241	25.3	644.0	0.12	6.32	16.3				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	eted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	1 🗖	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	ure:	Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
	,		sheen, etc.):	SLIGHTLY	GRAY WITH OR	ANGE PARTICUI	ATES NO/NS		
Sample Descr	iption (color, t	urbidity, odor,	-					Ferrous iron	Comments/
	,		sheen, etc.): _ D.O. (mg/L)	SLIGHTLY pH	GRAY WITH OR ORP (mV)	ANGE PARTICUI Turbidity (NTU)	ATES NO/NS DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t Temp	Cond.	D.O.		ORP	Turbidity	DTW		
Sample Descri	iption (color, t Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate 1 2	iption (color, t Temp (°F/°C) 25.4 25.4	Cond. (uS/cm) 645.0 645.0	<b>D.O.</b> (mg/L) 0.12 0.12	рН 6.32 6.32	ORP (mV) 	Turbidity	DTW		
Sample Descri Replicate	iption (color, t Temp (°F/°C) 25.4 25.4 25.6	Cond. (uS/cm) 645.0 645.0 646.0	D.O. (mg/L) 0.12 0.12 0.12	рН 6.32 6.32 6.32	ORP (mV) 15.6 15.1 14.6	Turbidity	DTW		
Sample Descr Replicate 1 2 3 4	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7	Cond.           (uS/cm)           645.0           645.0           646.0           646.0	D.O. (mg/L) 0.12 0.12 0.12 0.12	<b>pH</b> 6.32 6.32 6.32 6.32	ORP (mV) 15.6 15.1 14.6 14.6	Turbidity (NTU)	DTW		
Sample Descr Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5	Cond. (uS/cm) 645.0 645.0 646.0 646.0 645.5	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12	<b>pH</b> 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) 15.6 15.1 14.6 14.6 15.0	Turbidity (NTU) 	DTW (ft)	(Fe II)	
Sample Descr Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A	Cond. (uS/cm) 645.0 645.0 646.0 646.0 645.5 NALYSIS AL	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Sample Descr Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010	Cond. (uS/cm) 645.0 645.0 646.0 646.0 645.5 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) ((	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx)	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0! plicable or write n	DTW (ft)	(Fe II)	Observations
Sample Descr Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm) 645.0 645.0 646.0 646.0 645.5 NALYSIS AL 0) (8020) (N MH) (NWTPH	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 UVED PE WTPH-G) (1 -D) (NWTP	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) H-DX) (TPH	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) (BTEX) 1-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gr	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 645.0 645.0 646.0 646.0 646.0 645.5 NALYSIS AL 0) (8020) (N MH) (NWTPH activity) (TDS	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (B	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) (BTEX) (HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Sample Descr Replicate 1 2 3 4 Average: QUANTITY	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC	Cond. (uS/cm) 645.0 645.0 645.0 646.0 646.0 645.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	pH 6.32 6.32 6.32 6.32 6.32 6.32 8.80TTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) (BTEX) 1-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 645.0 645.0 646.0 646.0 645.5 NALYSIS AL 0) (8020) (N XH) (NWTPH Ictivity) (TDS C) (Total PO4 e) (WAD Cya	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UVVED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Br ) (Total Kiece nide) (Free	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX) H-DX) (TPH OD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations Observations OR
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 645.0 645.0 646.0 646.0 645.5 NALYSIS AL 0) (8020) (N MH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (E)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kied mide) (Free Ba) (Be) (Ca	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations Observations OR
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond.           (uS/cm)           645.0           645.0           646.0           646.0           646.0           646.0           645.5           NALYSIS AL           0) (8020) (N           \u00e4) (NWTPH           \u00e4) (TDS           C) (Total PO4           e) (WAD Cya)           (As) (Sb) (E           etals) (As) (Sb)           g short list)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 -D) (NWTP) (TSS) (Be) (Total Kiec nide) (Free Ba) (Be) (Ca (Ba) (Be) (Ca	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 645.0 645.0 645.0 646.0 646.0 645.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS 0) (Total PO4 e) (WAD Cya 0) (As) (Sb) (E etals) (As) (Sb)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 -D) (NWTP) (TSS) (Be) (Total Kiec nide) (Free Ba) (Be) (Ca (Ba) (Be) (Ca	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond.           (uS/cm)           645.0           645.0           646.0           646.0           646.0           646.0           645.5           NALYSIS AL           0) (8020) (N           \u00e4) (NWTPH           \u00e4) (TDS           C) (Total PO4           e) (WAD Cya)           (As) (Sb) (E           etals) (As) (Sb)           g short list)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 -D) (NWTP) (TSS) (Be) (Total Kiec nide) (Free Ba) (Be) (Ca (Ba) (Be) (Ca	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond.           (uS/cm)           645.0           645.0           646.0           646.0           646.0           646.0           645.5           NALYSIS AL           0) (8020) (N           \u00e4) (NWTPH           \u00e4) (TDS           C) (Total PO4           e) (WAD Cya)           (As) (Sb) (E           etals) (As) (Sb)           g short list)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 -D) (NWTP) (TSS) (Be) (Total Kiec nide) (Free Ba) (Be) (Ca (Ba) (Be) (Ca	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond.           (uS/cm)           645.0           645.0           646.0           646.0           646.0           646.0           645.5           NALYSIS AL           0) (8020) (N           \u00e4) (NWTPH           \u00e4) (TDS           C) (Total PO4           e) (WAD Cya)           (As) (Sb) (E           etals) (As) (Sb)           g short list)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 -D) (NWTP) (TSS) (Be) (Total Kiec nide) (Free Ba) (Be) (Ca (Ba) (Be) (Ca	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth others	Cond.           (uS/cm)           645.0           645.0           646.0           646.0           646.0           646.0           645.5           NALYSIS AL           0) (8020) (N           \u00e4) (NWTPH           \u00e4) (TDS           C) (Total PO4           e) (WAD Cya)           (As) (Sb) (E           etals) (As) (Sb)           g short list)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 -D) (NWTP) (TSS) (Be) (Total Kiec nide) (Free Ba) (Be) (Ca (Ba) (Be) (Ca	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	iption (color, t Temp (°F/°C) 25.4 25.4 25.6 25.7 25.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth others	Cond.           (uS/cm)           645.0           645.0           646.0           646.0           646.0           646.0           645.5           NALYSIS AL           0) (8020) (N           \u00e4) (NWTPH           \u00e4) (TDS           C) (Total PO4           e) (WAD Cya)           (As) (Sb) (E           etals) (As) (Sb)           g short list)	D.O. (mg/L) 0.12 0.12 0.12 0.12 0.12 0.12 0.12 UOWED PE WTPH-G) (1 -D) (NWTP) (TSS) (Be) (Total Kiec nide) (Free Ba) (Be) (Ca (Ba) (Be) (Ca	pH 6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 15.6 15.1 14.6 14.6 15.0 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/P	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations



Project Nam	e:	Boeing Ren	iton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 15/2018@	1433		
Sample Num	nber:	RGW174S-	180815		Weather:	HAZY			
Landau Repr	resentative:	CEB			-				
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	on:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	4.3	Time:	1403	Flow through cel	l vol.		GW Meter No.(s	1
Begin Purge:	Date/Time:	8/15 /2018	1404	End Purge:	Date/Time:	8/ 15 /2018 @	1421	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa +/- 3%	1s: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	< 0.3  ft	>/= 1 flow through cell	
1407	19.0	152.2	0.10	6.31	66.0		4.44		
1410	19.5	162.5	0.10	6.23	69.2		4.44		
	19.5	165.1	0.08	6.36	60.7		4.45		
1413							4.43		
1416	19.5	167.2	0.08	6.45	53.8				
1419	19.5	167.4	0.08	6.46	52.0				
1422									
SAMPLE CO	LLECTION E								
SAMPLE CO Sample Collec			Bailer		Pump/Pump Type	DED BLADDER			
Sample Collec Made of:	cted With:			PVC	Pump/Pump Type	DED BLADDER Polyethylene	Other	Dedicated	
Sample Collec Made of: Decon Proced	eted With:	Stainless Ste	el 🔲		Teflon		D Other	Dedicated	
Sample Collec Made of: Decon Proced (By Numerica	cted With:	Stainless Ste Alconox Wa	el 🗍 sh 🗍	PVC Tap Rinse	Teflon DI Water	Polyethylene Dedicated	D Other	Dedicated	
Sample Collec Made of: Decon Proced (By Numerica	cted With:	Stainless Ste Alconox Wa	el 🗍 sh 🗍	PVC Tap Rinse	Teflon	Polyethylene Dedicated	D Other	Dedicated	
Sample Collec Made of: Decon Proced (By Numerica	cted With:	Stainless Ste Alconox Wa	el 🗍 sh 🗍	PVC Tap Rinse	Teflon DI Water	Polyethylene Dedicated	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Collec Made of: Decon Proced ( <i>By Numerica</i> Sample Descr	ted With:	Stainless Ste Alconox Wa Other urbidity, odor Cond.	el 🗍 sh 🗍 , sheen, etc.): D.O.	PVC Tap Rinse CLEAR COI	Teflon DI Water CORLESS NO/NS	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate	cted With:	Stainless Ste Alconox Wa Other urbidity, odor Cond. (uS/cm)	el sh , sheen, etc.): D.O. (mg/L)	PVC Tap Rinse CLEAR COI pH	Teflon DI Water	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate 1 2	ted With:	Stainless Ste Alconox Wa Other urbidity, odor Cond. (uS/cm) 167.5 167.5	el sh , sheen, etc.): D.O. (mg/L) 0.08 0.08	PVC Tap Rinse CLEAR COI <b>pH</b> 6.46 6.46	Teflon     DI Water  CORLESS NO/NS  ORP (mV)  51.6  51.4	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate 1 2 3	ted With:	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 167.5 167.5 167.3	el sh , sheen, etc.): D.O. (mg/L) 0.08 0.08 0.08	PVC Tap Rinse CLEAR COI <b>pH</b> 6.46 6.46 6.46	Teflon     DI Water     ORP     (mV)     51.6     51.4     51.2	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Sample Collec Made of: Decon Proced ( <i>By Numerica</i> Sample Descr Replicate 1 2 3 4	ted With:	Stainless Ste Alconox Wa Other urbidity, odor <b>Cond.</b> (uS/cm) 167.5 167.5 167.3 167.5	el sh , sheen, etc.): D.O. (mg/L) 0.08 0.08 0.08 0.07	PVC Tap Rinse CLEAR COI <b>pH</b> 6.46 6.46 6.46 6.46	CORLESS NO/NS CORLESS NO/NS CORP (mV) 51.6 51.4 51.2 50.9	Polyethylene Dedicated  Turbidity (NTU)	DTW	Ferrous iron	
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate 1 2 3 4 Average:	cted With:	Stainless Ste Alconox Wa Other urbidity, odor (uS/cm) 167.5 167.5 167.3 167.5 167.5	el sh b.O. (mg/L) 0.08 0.08 0.08 0.07 0.08	PVC Tap Rinse CLEAR COI <b>pH</b> 6.46 6.46 6.46 6.46 6.46	CORLESS NO/NS ORP (mV) 51.6 51.4 51.2 50.9 51.3	Polyethylene Dedicated  Turbidity (NTU)  #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate 1 2 3 4 Average:	ted With:	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 167.5 167.5 167.3 167.5 167.5 167.5	el sh , sheen, etc.): D.O. (mg/L) 0.08 0.08 0.07 0.08 LLOWED PE	PVC Tap Rinse CLEAR COI <b>pH</b> 6.46 6.46 6.46 6.46 6.46 6.46 8. BOTTLE	Teflon     DI Water     DI Water     ORP     (mV)     51.6     51.4     51.2     50.9     51.3     TYPE (Circle ap	Polyethylene Dedicated  Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Observations
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate 1 2 3 4 Average:	ted With:	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 167.5 167.5 167.3 167.5 167.5 167.5 NALYSIS AI )) (8021) (N	el  sh  b.0. (mg/L) 0.08 0.08 0.07 0.08 0.07 0.08 LLOWED PE WTPH-G) (	PVC Tap Rinse CLEAR COI <b>pH</b> 6.46 6.46 6.46 6.46 6.46 6.46 8. <b>R BOTTLE</b> NWTPH-Gx)	CORLESS NO/NS CORP (mV) 51.6 51.2 50.9 51.3 TYPE (Circle ag (BTEX)	Polyethylene Dedicated Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Observations
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate 1 2 3 4 Average:	ted With:	Stainless Ste     Alconox Wa     ☐ Other     urbidity, odor     Cond.     (uS/cm)	el  sh  b. c. (mg/L) 0.08 0.08 0.08 0.08 0.07 0.08 LLOWED PE WTPH-G) ( D) (NWTPH	PVC Tap Rinse CLEAR COI <b>pH</b> 6.46 6.46 6.46 6.46 6.46 6.46 6.46 8. <b>R BOTTLE</b> NWTPH-GX) I-DX) (TPH-	☐ Teflon ☐ DI Water LORLESS NO/NS ORP (mV) 51.6 51.4 51.2 50.9 51.3 TYPE (Circle ap (BTEX) HCID) (8081) (0	Polyethylene Dedicated  Turbidity (NTU)  #DIV/0!  plicable or write 1 (8141) (Oil & Gre	DTW (ft)	Ferrous iron (Fe II)	Observations
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate 1 2 3 4 Average:	ted With:	Stainless Ste     Alconox Wa     ☐ Other     urbidity, odor     Cond.     (uS/cm)     167.5     167.5     167.5     167.5     167.5     167.5     167.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.	el  sh  b. c, sheen, etc.): D.O. (mg/L) 0.08 0.08 0.08 0.07 0.08 0.07 0.08 LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B	PVC Tap Rinse CLEAR COI <b>pH</b> 6.46 6.46 6.46 6.46 6.46 6.46 6.46 6.4	CORLESS NO/NS CORLESS NO/NS CORP (mV) 51.6 51.4 51.2 50.9 51.3 TYPE (Circle ag (BTEX) HCID) (8081) (0 dity) (Alkalinity)	Polyethylene Dedicated  Turbidity (NTU)  #DIV/0!  plicable or write p (8141) (Oil & Gre (HCO3/CO3) (C)	DTW (ft)	Ferrous iron (Fe II)	Observations
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate 1 2 3 4 Average:	ted With:	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 167.5 167.5 167.5 167.3 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5	el  sh  b. c, sheen, etc.): D.O. (mg/L) 0.08 0.08 0.08 0.07 0.08 0.07 0.08 LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B	PVC Tap Rinse CLEAR COI pH 6.46 6.46 6.46 6.46 6.46 6.46 6.46 6.4	☐ Teflon ☐ DI Water LORLESS NO/NS ORP (mV) 51.6 51.4 51.2 50.9 51.3 TYPE (Circle ap (BTEX) HCID) (8081) (0	Polyethylene Dedicated  Turbidity (NTU)  #DIV/0!  plicable or write p (8141) (Oil & Gre (HCO3/CO3) (C)	DTW (ft)	Ferrous iron (Fe II)	Observations
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate 1 2 3 4 Average:	ted With: ure: <i>l Order)</i> iption (color, t Temp (°F/°C) 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 167.5 167.5 167.3 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 167.5 17 167.5 167.5 17 17 17 17 17 17 17 17 17 17 17 17 17	el  sh  b.O. (mg/L) 0.08 0.08 0.08 0.07 0.08 0.07 0.08 ULOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free	PVC Tap Rinse CLEAR COI pH 6.46 6.46 6.46 6.46 6.46 6.46 6.46 6.4	☐ Teflon ☐ DI Water LORLESS NO/NS ORP (mV) 51.6 51.4 51.2 50.9 51.3 TYPE (Circle application (BTEX) HCID) (8081) (0 dity) (Alkalinity) ) (NH3) (NO3/	Polyethylene Dedicated  Turbidity (NTU)  #DIV/0!  plicable or write p (8141) (Oil & Gre (HCO3/CO3) (C)	DTW (ft) 	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR
Sample Collec Made of: Decon Proced ( <i>By Numerica</i> Sample Descr Replicate 1 2 3 4 Average: QUANTITY	ted With: ure: <i>l Order)</i> iption (color, t <b>Temp</b> (°F/°C) <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.3</u> <u>19.5</u> <u>19.5</u> <u>19.5</u> <u>19.5</u> <u>19.5</u> <u>19.5</u> <u>19.5</u> <u>19.5</u> <u>19.5</u> <u>19.5</u> <u>19.5</u> <u>19.5</u>	Stainless Ste     Alconox Wa     Other     urbidity, odor     Cond.     (uS/cm)	el  sh  b.C. (mg/L)  0.08  0.08  0.08  0.08  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.08  0.07  0.08  0.08  0.07  0.08  0.08  0.07  0.08  0.08  0.07  0.08  0.07  0.08  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.07  0.08  0.08  0.07  0.08  0.07  0.08  0.08  0.07  0.08  0.08  0.08  0.07  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.08  0.0	PVC Tap Rinse CLEAR COI pH 6.46 6.46 6.46 6.46 6.46 6.46 6.46 6.46 0.46 6.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Teflon     DI Water     DI Water     ORP     (mV)     51.6     51.4     51.2     50.9     51.3     TYPE (Circle ag     (BTEX)     HCID) (8081) (     dity) (Alkalinity)     () (NH3) (NO3/     (Cr) (Cu) (Fe) (	Polyethylene Dedicated Turbidity (NTU) #DIV/0! #DIV/0! 8141) (Oil & Gre (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (1	DTW (ft) non-standard an ase) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OR OR OR OR OR
Sample Collec Made of: Decon Proced ( <i>By Numerica</i> Sample Descr Replicate 1 2 3 4 Average: QUANTITY	ted With:	Stainless Ste     Alconox Wa     Other     urbidity, odor     Cond.     (uS/cm)     167.5     167.5     167.5     167.5     167.5     167.5     167.5     167.5     167.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5	el  sh  b.  b.  c.  (mg/L)  0.08  0.08  0.08  0.08  0.07  0.08  0.07  0.08  CLOWED PE  WTPH-G) ( D) (NWTPH  S) (TSS) (B  4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Ba) (Be) (Ca b) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	PVC Tap Rinse CLEAR COI pH 6.46 6.46 6.46 6.46 6.46 6.46 6.46 6.46 0.46 6.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Teflon     DI Water     DI Water     ORP     (mV)     51.6     51.4     51.2     50.9     51.3     TYPE (Circle ag     (BTEX)     HCID) (8081) (     dity) (Alkalinity)     () (NH3) (NO3/     (Cr) (Cu) (Fe) (	Polyethylene Dedicated Turbidity (NTU) #DIV/0! #DIV/0! 8141) (Oil & Gre (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (1	DTW (ft) non-standard an ase) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Sample Collec Made of: Decon Proced ( <i>By Numerica</i> Sample Descr Replicate 1 2 3 4 Average: QUANTITY	ted With:	Stainless Ste     Alconox Wa     Other     urbidity, odor     Cond.     (uS/cm)	el  sh  b.  b.  c.  (mg/L)  0.08  0.08  0.08  0.08  0.07  0.08  0.07  0.08  CLOWED PE  WTPH-G) ( D) (NWTPH  S) (TSS) (B  4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Ba) (Be) (Ca b) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	PVC Tap Rinse CLEAR COI pH 6.46 6.46 6.46 6.46 6.46 6.46 6.46 6.46 0.46 6.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Teflon     DI Water     DI Water     ORP     (mV)     51.6     51.4     51.2     50.9     51.3     TYPE (Circle ag     (BTEX)     HCID) (8081) (     dity) (Alkalinity)     () (NH3) (NO3/     (Cr) (Cu) (Fe) (	Polyethylene Dedicated Turbidity (NTU) #DIV/0! #DIV/0! 8141) (Oil & Gre (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (1	DTW (ft) non-standard an ase) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate 1 2 3 4 Average: QUANTITY	ted With:	Stainless Ste     Alconox Wa     Other     urbidity, odor     Cond.     (uS/cm)     167.5     167.5     167.5     167.5     167.5     167.5     167.5     167.5     167.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5	el  sh  b.  b.  c.  (mg/L)  0.08  0.08  0.08  0.08  0.07  0.08  0.07  0.08  CLOWED PE  WTPH-G) ( D) (NWTPH  S) (TSS) (B  4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Ba) (Be) (Ca b) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	PVC Tap Rinse CLEAR COI pH 6.46 6.46 6.46 6.46 6.46 6.46 6.46 6.46 0.46 6.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Teflon     DI Water     DI Water     ORP     (mV)     51.6     51.4     51.2     50.9     51.3     TYPE (Circle ag     (BTEX)     HCID) (8081) (     dity) (Alkalinity)     () (NH3) (NO3/     (Cr) (Cu) (Fe) (	Polyethylene Dedicated Turbidity (NTU) #DIV/0! #DIV/0! 8141) (Oil & Gre (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (1	DTW (ft) non-standard an ase) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Sample Collec Made of: Decon Proced (By Numerica Sample Descr Replicate 1 2 3 4 Average: QUANTITY	ted With:	Stainless Ste     Alconox Wa     Other     urbidity, odor     Cond.     (uS/cm)     167.5     167.5     167.5     167.5     167.5     167.5     167.5     167.5     167.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5     107.5	el  sh  b.  b.  c.  (mg/L)  0.08  0.08  0.08  0.08  0.07  0.08  0.07  0.08  CLOWED PE  WTPH-G) ( D) (NWTPH  S) (TSS) (B  4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Ba) (Be) (Ca b) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	PVC Tap Rinse CLEAR COI pH 6.46 6.46 6.46 6.46 6.46 6.46 6.46 6.46 0.46 6.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Teflon     DI Water     DI Water     ORP     (mV)     51.6     51.4     51.2     50.9     51.3     TYPE (Circle ag     (BTEX)     HCID) (8081) (     dity) (Alkalinity)     () (NH3) (NO3/     (Cr) (Cu) (Fe) (	Polyethylene Dedicated Turbidity (NTU) #DIV/0! #DIV/0! 8141) (Oil & Gre (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (1	DTW (ft) non-standard an ase) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OR OR OR OR OR OR OR OR OR OR

Du

Comments:

Signature: CEB P:\8888 - Boeing Renton\02 Data Management\2018\3Q2018\field data\Landau Files\AOC-004\_8.15.18\_CEB.xlsx



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 15 /2018@	1403		
Sample Nun	nber:	RGW250S-	180815		Weather:	HAZY			
Landau Rep	resentative:	CEB							
WATER LEV	/EL/WELL/PI	URGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	4.36	Time:	1333	Flow through ce	l vol.		GW Meter No.(s	1
Begin Purge:	Date/Time:	8/ /2018 @	1335	End Purge:	Date/Time:	8/ 15 /2018 @	1354	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU) dings within the fo	DTW (ft)	Internal Purge Volume (gal) >/= 1 flow	Comments/ Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
1338	21.3	141.9	0.82	6.46	60.1		4.25		
1341	22.0	142.6	0.57	6.32	67.0		4.23		
1344		145.6	0.45	6.39	61.6		4.24		
1347	23.1	148.4	0.32	6.57	50.8				
1350		149.3	0.26	6.62	46.3				
1353	23.5	149.6	0.25	6.64	44.1				
	· ·								
SAMPLE CO									
Sample Colle	cted With:		Bailer			DED BLADDER		_	
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	sh 🗌	Tap Rinse	DI Water	Dedicated			
(By Numerica		Other							
Sample Descr	iption (color,	turbidity, odor	, sheen, etc.):	CLEAR CO	LORLESS SLIGH	IT ODOR NS			
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	23.5	149.5	0.24	6.64	43.7				
2	23.6	149.5	0.23	6.64	43.3				
3	23.5	149.5	0.22	6.65	43.0				
4	23.6	149.6	0.22	6.65	42.8				
Average:	23.6	149.5	0.23	6.65	43.2	#DIV/0!			
QUANTITY						plicable or write	non-standard ar		
	· / ·	0) (8021) (N			· · · · · ·	(0il & Gre	aca)	WA 🗆	$OR \square$
		/ ``	/ \	<i>,</i> , ,	· · · · · ·	(HCO3/CO3) (0	,		
					and $(NH3)$ (NO3)			3) (1102) (1)	
		le) (WAD Cy							
1	(Total Metals	) (As) (Sb) (	Ba) (Be) (Ca	a) (Cd) (Co)	(Cr) (Cu) (Fe)	Pb) (Mg) (Mn) (l	Ni) (Ag) (Se) (	Γl) (V) (Zn) (Hg	g) (K) (Na)
	(Dissolved M	etals) (As) (St	o) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P	o) (Mg) (Mn) (Ni) (	(Ag) (Se) (Tl) (V	) (Zn) (Hg) (K) (N	la) (Hardness) (Silica
	VOC (Boein								
	Methane Eth	nane Ethene Ad	cetylene						
	others								

P:\8888 - Boeing Renton\02 Data Management\2018\3Q2018\field data\Landau Files\AOC-004\_8.15.18\_CEB.xlsx

Duplicate Sample No(s):

Comments:



Project Nam	e:	Boeing Rent	on		Project Number	r:	0025217.099.0	99	
Event:		Quarterly Au	ugust 2018		Date/Time:	8/ 14 /2018@	1030		
Sample Num	ber:	RGW009S-	180814		Weather:	70S SMOKY			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	<b>IRGE DATA</b>							
Well Conditio	n:	Secure (YES)		Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	5.25	Time:	958	Flow through cel	l vol.		GW Meter No.(s	HERON3
Begin Purge:	Date/Time:	8/14 /2018	1000	End Purge:	Date/Time:	8/ 14 /2018 @	1024	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	lls: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	llowing limits < 0.3 ft	>/= 1 flow through cell	
1003	20.9	405.3	0.35	6.26		LOW	5.30	un ougn een	
-						LOW	·		
1006	21.0	408.0	0.30	6.27	27.0		5.30		
1009	21.0	410.0	0.28	6.27	26.4		5.30		
1012	21.1	413.0	0.23	6.29	22.3				
1015	21.1	412.4	0.26	6.30	19.3				
1018	21.1	412.5	0.22	6.31	16.9				
1021	21.1	412.5	0.23	6.32	15.0				
SAMPLE CO	LLECTION D								
Sample Collec	ted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	1 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	h 🗍	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
Sample Descr	iption (color, t		sheen, etc.):	CLEAR CO	LORLESS SLIGH	T ROTTEN ODOF	R NO SHEEN		
Sample Descr Replicate	iption (color, t		sheen, etc.):	CLEAR COI	LORLESS SLIGH	T ROTTEN ODOF	R NO SHEEN	Ferrous iron	Comments/
		urbidity, odor,	-					Ferrous iron (Fe II)	Comments/ Observations
	Temp	urbidity, odor,	D.O.		ORP	Turbidity	DTW		
Replicate	Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity	DTW		
Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 21.1	urbidity, odor, Cond. (uS/cm) 412.2	D.O. (mg/L) 0.21	<b>рН</b> 6.32	ORP (mV) 14.5	Turbidity	DTW		
Replicate 1 2	Temp           (°F/°C)           21.1           21.1	Cond. (uS/cm) 412.2 411.9	D.O. (mg/L) 0.21 0.20	<b>pH</b> 6.32 6.31	ORP (mV) 14.5 14.5	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1	Cond. (uS/cm) 412.2 411.9 411.9 411.6	D.O. (mg/L) 0.21 0.20 0.20 0.19	<b>pH</b> 6.32 6.31 6.31 6.31	ORP (mV) 14.5 14.5 13.8 13.4	Turbidity (NTU)	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1	Cond. (uS/cm) 412.2 411.9 411.9 411.6 411.9	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20	<b>pH</b> 6.32 6.31 6.31 6.31 6.31	ORP (mV) 14.5 14.5 13.8 13.4 14.1	Turbidity (NTU) 	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1	Cond. (uS/cm) 412.2 411.9 411.9 411.6 411.9 NALYSIS AL	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE	pH 6.32 6.31 6.31 6.31 6.31 8.BOTTLE	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1	Cond. (uS/cm) 412.2 411.9 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1	pH 6.32 6.31 6.31 6.31 6.31 8.31 R BOTTLE NWTPH-GX)	ORP (mV) 14.5 14.5 13.8 13.4 14.1 <b>TYPE (Circle ap</b> (BTEX)	Turbidity (NTU) #DIV/0! plicable or write r	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (8270D)	Cond. (uS/cm) 412.2 411.9 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N H) (NWTPH	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP	pH 6.32 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-GX) H-DX) (TPH	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) 	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (8270D)	Cond. (uS/cm) 412.2 411.9 411.9 411.6 411.9 NALYSIS AL (N) (8020) (N (H) (NWTPH ctivity) (TDS	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (B	pH 6.32 6.31 6.31 6.31 6.31 8.80TTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (8270D)           (PH)           (COD)           (TOC)	Cond. (uS/cm) 412.2 411.9 411.9 411.6 411.9 NALYSIS AL (N) (8020) (N (H) (NWTPH ctivity) (TDS	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiee	pH           6.32           6.31           6.31           6.31           6.31           6.31           6.31           6.31           0.31           0.31           6.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.31           0.32           0.33           0.34           0.35           0.35           0.35           0.35           0.35           0.35           0.35           0.35           0.35           0.35           0.35           0.35 </td <td>ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity)</td> <td>Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil &amp; Gr (HCO3/CO3) (C</td> <td>DTW (ft)</td> <td>(Fe II)</td> <td>Observations</td>	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (Second)           (8260)           (8010)           (8270D)           (PA)           (COD)           (Total Cyanid)           (Total Metals)	Cond. (uS/cm) 412.2 411.9 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (E	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec unide) (Free Ba) (Be) (Ca	pH <u>6.32</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>R BOTTLE</u> <u>NWTPH-Gx</u> ) <u>H-Dx</u> ) (TPH <u>OD</u> ) (Turbid <u>Jahl Nitrogen</u> ) <u>Cyanide</u> ) <u>) (Cd) (Co)</u>	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/I (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Dissolved Metals)	Cond. (uS/cm) 412.2 411.9 411.9 411.6 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb)	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec unide) (Free Ba) (Be) (Ca	pH <u>6.32</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>R BOTTLE</u> <u>NWTPH-Gx</u> ) <u>H-Dx</u> ) (TPH <u>OD</u> ) (Turbid <u>Jahl Nitrogen</u> ) <u>Cyanide</u> ) <u>) (Cd) (Co)</u>	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/I (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (8260)           (8010)           (8260)           (9H)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 412.2 411.9 411.9 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH <u>6.32</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>R BOTTLE</u> <u>NWTPH-Gx</u> ) <u>H-Dx</u> ) (TPH <u>OD</u> ) (Turbid <u>Jahl Nitrogen</u> ) <u>Cyanide</u> ) <u>) (Cd) (Co)</u>	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/I (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (8260)           (8010)           (8260)           (9H)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 412.2 411.9 411.9 411.6 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb)	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH <u>6.32</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>R BOTTLE</u> <u>NWTPH-Gx</u> ) <u>H-Dx</u> ) (TPH <u>OD</u> ) (Turbid <u>Jahl Nitrogen</u> ) <u>Cyanide</u> ) <u>) (Cd) (Co)</u>	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/I (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (8260)           (8010)           (8260)           (9H)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 412.2 411.9 411.9 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH <u>6.32</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>R BOTTLE</u> <u>NWTPH-Gx</u> ) <u>H-Dx</u> ) (TPH <u>OD</u> ) (Turbid <u>Jahl Nitrogen</u> ) <u>Cyanide</u> ) <u>) (Cd) (Co)</u>	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/I (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (8260)           (8010)           (8260)           (9H)           (Condu           (COD)           (Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 412.2 411.9 411.9 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH <u>6.32</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>R BOTTLE</u> <u>NWTPH-Gx</u> ) <u>H-Dx</u> ) (TPH <u>OD</u> ) (Turbid <u>Jahl Nitrogen</u> ) <u>Cyanide</u> ) <u>) (Cd) (Co)</u>	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/I (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (COD)           (Total Cyanid)           (Dissolved Mathema Eth)           others	Cond. (uS/cm) 412.2 411.9 411.9 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH <u>6.32</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>R BOTTLE</u> <u>NWTPH-Gx</u> ) <u>H-Dx</u> ) (TPH <u>OD</u> ) (Turbid <u>Jahl Nitrogen</u> ) <u>Cyanide</u> ) <u>) (Cd) (Co)</u>	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/I (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (COD)           (Total Cyanid)           (Dissolved Mathema Eth)           others	Cond. (uS/cm) 412.2 411.9 411.9 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH <u>6.32</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>R BOTTLE</u> <u>NWTPH-Gx</u> ) <u>H-Dx</u> ) (TPH <u>OD</u> ) (Turbid <u>Jahl Nitrogen</u> ) <u>Cyanide</u> ) <u>) (Cd) (Co)</u>	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/I (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 </td <td>Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (COD)           (Total Cyanid)           (Dissolved Mathema Eth)           others</td> <td>Cond. (uS/cm) 412.2 411.9 411.9 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)</td> <td>D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal</td> <td>pH <u>6.32</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>R BOTTLE</u> <u>NWTPH-Gx</u>) <u>H-Dx</u>) (TPH <u>OD</u>) (Turbid <u>Jahl Nitrogen</u>) <u>Cyanide</u>) <u>) (Cd) (Co)</u></td> <td>ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/I (Cr) (Cu) (Fe) (I</td> <td>Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil &amp; Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N</td> <td>DTW (ft)</td> <td>(Fe II)</td> <td>Observations</td>	Temp (°F/°C)           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           21.1           (8260)           (8010)           (COD)           (Total Cyanid)           (Dissolved Mathema Eth)           others	Cond. (uS/cm) 412.2 411.9 411.9 411.9 411.6 411.9 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) g short list)	D.O. (mg/L) 0.21 0.20 0.20 0.19 0.20 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec nide) (Free Ba) (Be) (Cal (Ba) (Be) (Cal	pH <u>6.32</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>R BOTTLE</u> <u>NWTPH-Gx</u> ) <u>H-Dx</u> ) (TPH <u>OD</u> ) (Turbid <u>Jahl Nitrogen</u> ) <u>Cyanide</u> ) <u>) (Cd) (Co)</u>	ORP (mV) 14.5 14.5 13.8 13.4 14.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/I (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations



Project Nar	me:	Boeing Ren	iton		Project Numbe	er:	0025217.099.0	99	
Event:		Quarterly A			Date/Time:	8/14 /2018@	816		
Sample Nu	mber:	RGW010S-	-		Weather:	HAZY	010		
-	presentative:	CEB	1000						
	-								
WATER LE	EVEL/WELL/P	Secure (YES	2)	Damaged (N	$(\mathbf{O})$	Describe:			
				-				CWAR N (	、 、
	e Purging (ft)	5.41	Time:		Flow through ce			GW Meter No.(s	5)
	: Date/Time:	8/14 /2018		End Purge:		8/14 /2018 @		Gallons Purged:	
Purge water	disposed to:	4	55-gal Drun	n L	Storage Tank	Ground	U Other	SITE TREATM	ENTSYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C) Purge Gos	(uS/cm) uls: Stablizatio	(mg/L)	eters for three	(mV)	(NTU) dings within the fo	(ft) Ilowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
	_								
	- W.	ATER	LEV	EL O	NLY				
								·	
								·	
				·					
SAMPLE C	OLLECTION I			·		. <u> </u>		·	
Sample Coll			Bailer		Pump/Pump Typ	2			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proce	dura:	Alconox Wa			DI Water	Dedicated			
(By Numeric		Other	sii 🖵	1 ap Killse		Dedicated			
	,		chaon ata):						
Sample Desc	cription (color,	lurbially, odor	, sheen, etc.):						
Replicate	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Ferrous iron	Comments/
.1	(° <b>F</b> /° <b>C</b> )	(uS/cm)	(mg/L)	Ľ	(mV)	(NTU)	( <b>ft</b> )	(Fe II)	Observations
1									
2									
				·					
3								·	
4								·	
Average:	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		·	
QUANTITY	Y TYPICAL A	NALYSIS AI	LLOWED P	ER BOTTLE	TYPE (Circle a	pplicable or write n	on-standard a	nalysis below)	
				(NWTPH-Gx)				WA 🗆	OR 🗌
	(8270D) (PA	AH) (NWTPH	H-D) (NWT	PH-Dx) (TPH	H-HCID) (8081)	(8141) (Oil & Gr	rease)	WA 🗆	OR 🗆
	(pH) (Condu	uctivity) (TD	S) (TSS) (I	BOD) (Turbi	dity) (Alkalinity	) (HCO3/CO3) (C	Cl) (SO4) (NC	03) (NO2) (F)	
	(COD) (TO	C) (Total PO-	4) (Total Ki	edahl Nitroger	n) (NH3) (NO3	/NO2)			
	(Total Cyanic	le) (WAD Cy	anide) (Free	e Cyanide)					
	(Total Metals	s) (As) (Sb) (	Ba) (Be) (C	a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (N	Ni) (Ag) (Se) (	Tl) (V) (Zn) (Hg	g) (K) (Na)
ļ			b) (Ba) (Be) (	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P	b) (Mg) (Mn) (Ni) (.	Ag) (Se) (Tl) (V	') (Zn) (Hg) (K) (N	la) (Hardness) (Silic
ļ	VOC (Boeir								
	Methane Eth	nane Ethene A	cetylene						
	4								
	others								

Signature:

Date:



Project Nan	ne:	Boeing Ren	iton		Project Numbe	r.	0025217.099.0	99	
Event:		Quarterly A			Date/Time:	8/14 /2018@	823	~~	
Sample Nu	mher:	RGW011D	-		Weather:	HAZY	025		
-	presentative:	CEB	1000		,, eucler				
-									
WATER LE Well Conditi	VEL/WELL/P	Secure (YES	)	Damaged (N	0)	Describe:			
				-				CHAN A N (	\ \
	e Purging (ft)	5.44			Flow through ce			GW Meter No.	s)
	: Date/Time:			End Purge:		8/14 /2018 @		Gallons Purged:	
Purge water	disposed to:		55-gal Drun	n L	Storage Tank	Ground	U Other	SITE TREATM	ENTSYSTEM
(T) 1	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	
Time	(°F/°C) Purge Goa	(uS/cm) ds: Stablizatio	(mg/L) on of Parame	eters for three	(mV) e consecutive rea	(NTU) dings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
	-								
	- W.	ATER	LEV	EL O	NLY			·	
								·	
	_								
	_				1				
SAMPLE CO	OLLECTION I					·		·	
Sample Colle			Bailer		Pump/Pump Typ	2			
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proce		Alconox Wa			DI Water	Dedicated			
(By Numeric		Other		Tap Kinse					
	,		ala ana ata ).						
Sample Desc	cription (color,	luibiaity, odoi	, sheen, etc.).						
Replicate	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Ferrous iron	Comments/
1	(° <b>F</b> /° <b>C</b> )	(uS/cm)	( <b>mg/L</b> )	ľ	(mV)	(NTU)	( <b>ft</b> )	(Fe II)	Observations
1									
2									
3									
4									
Average:	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
QUANTITY	Y TYPICAL A	NALYSIS AI	LLOWED PI	ER BOTTLE	TYPE (Circle a	pplicable or write n	ion-standard a	nalysis below)	
		0) (8020) (N						WA 🗆	OR 🗆
	(8270D) (PA	AH) (NWTPH	H-D) (NWT	PH-Dx) (TPH	H-HCID) (8081)	(8141) (Oil & Gr	ease)	WA 🗆	OR 🗆
	(pH) (Condu	uctivity) (TD	S) (TSS) (H	BOD) (Turbi	dity) (Alkalinity	) (HCO3/CO3) (C	Cl) (SO4) (NO	3) (NO2) (F)	
	(COD) (TO	C) (Total PO	4) (Total Ki	edahl Nitroger	n) (NH3) (NO3	/NO2)			
		le) (WAD Cy							
	(Total Metals	) (As) (Sb) (	Ba) (Be) (C	a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (N	Ni) (Ag) (Se) (	Tl) (V) (Zn) (H	g) (K) (Na)
ļ			o) (Ba) (Be) (	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P	b) (Mg) (Mn) (Ni) (.	Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (R)	Na) (Hardness) (Silic
ļ	VOC (Boeir								
	Methane Eth	nane Ethene A	cetylene						
	others								

Signature:

Date:



Project Name	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 14 /2018@	820		
Sample Num	ber:	RGW012S-	180814		Weather:	70S SMOKY			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	<b>RGE DATA</b>							
Well Condition		Secure (YES)	)	Damaged (N	O)	Describe:			
DTW Before I	Purging (ft)	5.03	Time:	-	Flow through cel	l vol.		GW Meter No.(s	HERON3
Begin Purge:	0 0 0		750			8/ 14 /2018 @	805	Gallons Purged:	
Purge water di	isposed to:		55-gal Drum	Ĕ.	Storage Tank	Ground		SITE TREATM	
-	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	рп	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	0					dings within the fo	0	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
753	22.7	2346.0	0.29	4.63	100.0	MED	5.03		
756	22.7	2380.0	0.28	4.64	100.4		5.03		
759	22.8	2384.0	0.29	4.64	100.4				
802	22.8	2404.0	0.27	4.64	100.4		5.03		
							·		
							·		
SAMPLE CO							·		
Sample Collec			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	_	Tap Rinse	DI Water	Dedicated		Dedicated	
(By Numerical		Other	n L	rap Killse					
(-)									
Sample Descri	<i>,</i>		sheen, etc.):	GRAY SLIG	HTLY TURBID I	ROTTEN ODOR N	O SHEEN		
Sample Descri	<i>,</i>		sheen, etc.):	GRAY SLIG	HTLY TURBID I	ROTTEN ODOR N	O SHEEN		
Sample Descri Replicate	iption (color, t	urbidity, odor,	D.O.	GRAY SLIG	ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)			Ferrous iron (Fe II)	Comments/ Observations
	iption (color, t	urbidity, odor,	D.O.		ORP	Turbidity	DTW		
Replicate	Temp (°F/°C)	urbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity	DTW		
Replicate	Temp (°F/°C) 22.8	urbidity, odor, Cond. (uS/cm) 2406.0	D.O. (mg/L) 0.27	<b>рН</b> 4.64	ORP (mV) 100.3	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 22.8 22.8	Cond. (uS/cm) 2406.0 2406.0	D.O. (mg/L) 0.27 0.27	<b>рН</b> 4.64 4.64	ORP (mV) 100.3 100.3	Turbidity	DTW		
Replicate 1 2 3 4	Temp         (°F/°C)           22.8         22.8           22.8         22.8           22.8         22.8	Cond. (uS/cm) 2406.0 2406.0 2407.0 2408.0	D.O. (mg/L) 0.27 0.27 0.27 0.27	<b>рН</b> 4.64 4.64 4.64	ORP (mV) 100.3 100.3 100.3 100.3	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp         (°F/°C)           22.8         22.8           22.8         22.8           22.8         22.8           22.8         22.8	Cond. (uS/cm) 2406.0 2406.0 2407.0 2408.0 2406.8	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27	<b>pH</b> 4.64 4.64 4.64 4.64 4.64	ORP (mV) 100.3 100.3 100.3 100.3 100.3	Turbidity (NTU) 	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY	Temp         °C)           22.8         22.8           22.8         22.8           22.8         22.8           22.8         22.8           22.8         22.8           22.8         22.8           22.8         22.8           22.8         22.8	Cond. (uS/cm) 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AL	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE	<b>pH</b> 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b>	ORP (mV) 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp         °C)           22.8         22.8           22.8         22.8           22.8         22.8           22.8         22.8           22.8         22.8           22.8         22.8           (°F)°C)         22.8           22.8         22.8           22.8         22.8           22.8         22.8           (8260)         (8010)	Cond. (uS/cm) 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1	<b>pH</b> 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-GX)	ORP (mV) 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0! plicable or write r	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp         """           (°F/°C)         22.8           22.8         22.8           22.8         22.8           22.8         22.8           22.8         ("""")           (8260)         (8010)           (8270D)         ("PA"")	Cond. (uS/cm) 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AL NALYSIS AL NALYSIS AL NALYSIS AL	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 I-D) (NWTP	pH 4.64 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp           (°F/°C)           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           (8260)           (8010)           (8270D)           (PH)	Cond. (uS/cm) 2406.0 2406.0 2407.0 2408.0 2406.8 NALYSIS AI 0) (8020) (N H) (NWTPH ctivity) (TDS	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 0.27 UOWED PE WTPH-G) (1 (-D) (NWTP -D) (NWTP	pH 4.64 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp           (°F/°C)           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           (8260)           (8010)           (8270D)           (PA)           (COD)           (TOC)	Cond. (uS/cm) 2406.0 2406.0 2407.0 2408.0 2406.8 NALYSIS AI 0) (8020) (N H) (NWTPH ctivity) (TDS	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	pH 4.64 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) (BTEX) I-HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp           (°F/°C)           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           (°E)           (°E)	Cond. (uS/cm) 2406.0 2406.0 2406.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cyst	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 I-D) (NWTP b) (TSS) (Be c) (Total Kiece anide) (Free	pH 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp           (°F/°C)           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           (8260)           (8010)           (8270D)           (PA)           (Condu           (COD)           (Total Cyanid)           (Total Metals)	Cond. (uS/cm) 2406.0 2406.0 2406.0 2408.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N MH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (I	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (B0 C) (Total Kiec anide) (Free Ba) (Be) (Ca	pH 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 2406.0 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N .H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP) (-D) (NWTP (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (-D) (-D) (-D) (-D) (-D) (-D) (-D)	pH 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N AH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cyr 0) (As) (Sb) (I etals) (As) (Sb	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP) (-D) (NWTP (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (-D) (-D) (-D) (-D) (-D) (-D) (-D)	pH 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 2406.0 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N .H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP) (-D) (NWTP (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (-D) (-D) (-D) (-D) (-D) (-D) (-D)	pH 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C) 22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.	Cond. (uS/cm) 2406.0 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N .H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP) (-D) (NWTP (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (-D) (-D) (-D) (-D) (-D) (-D) (-D)	pH 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           22.8           22.8           22.8           22.8           22.8           22.8           22.8           22.8           (8260)           (8010)           (8270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 2406.0 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N .H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP) (-D) (NWTP (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (-D) (-D) (-D) (-D) (-D) (-D) (-D)	pH 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C) 22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.	Cond. (uS/cm) 2406.0 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N .H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP) (-D) (NWTP (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (-D) (-D) (-D) (-D) (-D) (-D) (-D)	pH 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 </td <td>Temp (°F/°C) 22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.</td> <td>Cond. (uS/cm) 2406.0 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N .H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)</td> <td>D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP) (-D) (NWTP (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (-D) (-D) (-D) (-D) (-D) (-D) (-D)</td> <td>pH 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)</td> <td>ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I</td> <td>Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil &amp; Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N</td> <td>DTW (ft)</td> <td>(Fe II)</td> <td>Observations</td>	Temp (°F/°C) 22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.	Cond. (uS/cm) 2406.0 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N .H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP) (-D) (NWTP (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (-D) (-D) (-D) (-D) (-D) (-D) (-D)	pH 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:  QUANTITY 3 1 1 1 1 Duplicate Sam Comments:	Temp (°F/°C) 22.8 22.8 22.8 22.8 22.8 22.8 22.8 22.	Cond. (uS/cm) 2406.0 2406.0 2406.0 2407.0 2408.0 2408.0 2408.8 NALYSIS AI 0) (8020) (N .H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cy: 0) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 0.27 0.27 0.27 0.27 0.27 0.27 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP) (-D) (NWTP (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (NWTP) (-D) (-D) (-D) (-D) (-D) (-D) (-D) (-D)	pH 4.64 4.64 4.64 4.64 4.64 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) 100.3 100.3 100.3 100.3 100.3 100.3 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations



Project Nam	ie:	Boeing Ren	ton		Project Numbe	er:	0025217.099.0	99	
Event:		Quarterly A			Date/Time:	8/14 /2018@	747		
Sample Nun	nber:	RGW014S-	U U		Weather:	CLEAR			
Landau Rep	-	CEB							
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	5.1	Time:	-	Flow through ce			GW Meter No.(s	1
	Date/Time:			End Purge:	-	8/14 /2018 @	734	Gallons Purged:	
Purge water d	lisposed to:		55-gal Drum	Ō	Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /° <b>Ĉ</b> )	(uS/cm)	( <b>mg/L</b> )	-	( <b>mV</b> )	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units		dings within the fo +/- 10%	llowing limits < 0.3 ft	>/= 1 flow	
720								through cell	
720		416.4	0.35	6.33		LOW	5.18		
723		417.3	0.54	6.29	112.9		5.19		
726	21.4	416.7	0.59	6.28	114.6		5.20		
729	21.5	416.3	0.55	6.28	115.5				
SAMPLE CC	LLECTION E	DATA							
Sample Colle			Bailer		Pump/Pump Type	e DED BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proceed	lure:	Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated		- <b>X</b>	
Decon Proced		Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated		*	
(By Numerica	ıl Order)	Other		-	DI Water	78		~ <b>x</b>	
(By Numerical Sample Descr	<i>Il Order)</i>	Other Other	, sheen, etc.):	CLEAR CO	LORLESS NO/N	S	DTW	*	Comments
(By Numerica	ıl Order)	Other		-		S Turbidity	DTW (ft)		Comments/ Observations
(By Numerical Sample Descr Replicate	tl Order) tiption (color, t Temp (°F/°C)	Cond. (uS/cm)	, sheen, etc.): D.O (mg/L)	CLEAR CO	LORLESS NO/N ORP (mV)	S		Ferrous iron	
(By Numerical Sample Descr Replicate	tl Order) ription (color, t (°F/°C) 21.5	Cond. (uS/cm)	, sheen, etc.): D.O. (mg/L) 0.52	CLEAR CO pH 6.28	UORLESS NO/N ORP (mV) 115.1	S Turbidity		Ferrous iron	
(By Numerical Sample Descri Replicate	tl Order) iption (color, t (°F/°C) 21.5 21.5	Cond. (uS/cm) 416.7 416.8	D.O. (mg/L) 0.52 0.52	CLEAR CO pH 6.28 6.28	ORP (mV) 115.1 114.7	S Turbidity		Ferrous iron	
(By Numerical Sample Descr Replicate	tl Order) iption (color, t (°F/°C) 21.5 21.5 21.5	Cond. (uS/cm) 416.7 416.8 417.0	b.O. (mg/L) 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28	ORP (mV) 115.1 114.7 114.10	S Turbidity		Ferrous iron	
(By Numerical Sample Descri Replicate	tl Order) iption (color, t (°F/°C) 21.5 21.5	Cond. (uS/cm) 416.7 416.8	D.O. (mg/L) 0.52 0.52	CLEAR CO pH 6.28 6.28	ORP (mV) 115.1 114.7	S Turbidity		Ferrous iron	
(By Numerical Sample Descr Replicate	tl Order) iption (color, t (°F/°C) 21.5 21.5 21.5	Cond. (uS/cm) 416.7 416.8 417.0	b.O. (mg/L) 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28	ORP (mV) 115.1 114.7 114.10	S Turbidity		Ferrous iron	
(By Numerical Sample Descri Replicate	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5	Cond. (uS/cm) 416.7 416.8 417.0 417.0 416.9	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28	ORP (mV) 115.1 114.7 114.10 113.9 114.5	Turbidity       (NTU)	(ft)	Ferrous iron (Fe II)	
(By Numerical Sample Descri Replicate 1 2 3 4 Average:	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	Cond. (uS/cm) 416.7 416.8 417.0 417.0 416.9	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28	ORP (mV) 115.1 114.7 114.10 113.9 114.5 TYPE (Circle a	Turbidity       (NTU)       #DIV/0!	(ft)	Ferrous iron (Fe II)	
(By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010)	Cond. (uS/cm) 416.7 416.8 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx)	ORP (mV) 115.1 114.7 114.10 113.9 114.5 TYPE (Circle a	Turbidity         S         Turbidity         (NTU)         #DIV/0!         pplicable or write 1	(ft)	Ferrous iron (Fe II)	Observations
(By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (8270D) (PA	Cond. (uS/cm) 416.7 416.8 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N MH) (NWTPH Ictivity) (TDS	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 7 8 8 8 8 8 8 7 8 7 8 1 9 1 9 1 9 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1	ORP (mV) 115.1 114.7 114.10 113.9 114.5 TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity	J         J           S         Turbidity (NTU)           #DIV/0!         #DIV/0!           #DIV/0!         (8141) (Oil & Gil)           (8141) (Oil & Gil)         (HCO3/CO3) (Cond)	(ft)	Ferrous iron (Fe II) 	Observations
(By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO	Cond. (uS/cm) 416.7 416.7 416.8 417.0 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N AH) (NWTPH inctivity) (TDS C) (Total POo	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH OD) (Turbio dahl Nitroger	ORP (mV) 115.1 114.7 114.7 114.10 113.9 114.5 TYPE (Circle a) (BTEX) H-HCID) (8081)	J         J           S         Turbidity (NTU)           #DIV/0!         #DIV/0!           #DIV/0!         (8141) (Oil & Gil)           (8141) (Oil & Gil)         (HCO3/CO3) (Cond)	(ft)	Ferrous iron (Fe II) 	Observations
(By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 416.7 416.7 416.8 417.0 417.0 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N MH) (NWTPH (ctivity) (TDS C) (Total PO- e) (WAD Cy	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 7 7 7 7 7 7 7 7 7 7 7 7 7	ORP (mV) 115.1 114.7 114.7 114.10 113.9 114.5 TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity h) (NH3) (NO3	J           S           Turbidity (NTU)           #DIV/0!           pplicable or write 1           (8141) (Oil & Gill           (HCO3/CO3) (C           (NO2)	(ft) mon-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA 3) (NO2) (F)	Observations OB Control Contro
(By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 416.7 416.8 417.0 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total POO (e) (WAD Cy 0) (As) (Sb) (	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-GX PH-DX) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	ORP (mV) 115.1 114.7 114.10 113.9 114.5 TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity h) (NH3) (NO3 (Cr) (Cu) (Fe)	J         J           S         Turbidity (NTU)           #DIV/0!         #DIV/0!           pplicable or write 1         (8141) (Oil & Gill)           (8141) (Oil & Gill)         (HCO3/CO3) (Classical)           (NO2)         (Pb) (Mg) (Mn) (1)	(ft) mon-standard at rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OR OR O
(By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 416.7 416.8 417.0 417.0 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (NAH) (NWTPH activity) (TDS C) (Total POO le) (WAD Cy 0) (As) (Sb) (St	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-GX PH-DX) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	ORP (mV) 115.1 114.7 114.10 113.9 114.5 TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity h) (NH3) (NO3 (Cr) (Cu) (Fe)	J         J           S         Turbidity (NTU)           #DIV/0!         #DIV/0!           pplicable or write 1         (8141) (Oil & Gi           (8141) (Oil & Gi         (1000) (CO3) (CV)           (NO2)         (Pb) (Mg) (Mn) (100)	(ft) mon-standard at rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OB Control Contro
(By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (8260) (8010 (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 416.7 416.8 417.0 417.0 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (NAH) (NWTPH activity) (TDS C) (Total POO le) (WAD Cy 0) (As) (Sb) (St	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-GX PH-DX) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	ORP (mV) 115.1 114.7 114.10 113.9 114.5 TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity h) (NH3) (NO3 (Cr) (Cu) (Fe)	J         J           S         Turbidity (NTU)           #DIV/0!         #DIV/0!           pplicable or write 1         (8141) (Oil & Gi           (8141) (Oil & Gi         (1000) (CO3) (CV)           (NO2)         (Pb) (Mg) (Mn) (100)	(ft) mon-standard at rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OR OR O
(By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (8260) (8010 (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 416.7 416.7 416.8 417.0 417.0 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N MH) (NWTPH ictivity) (TDS C) (Total PO- le) (WAD Cy 0) (As) (Sb) ( etals) (As) (Sb)	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-GX PH-DX) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	ORP (mV) 115.1 114.7 114.10 113.9 114.5 TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity h) (NH3) (NO3 (Cr) (Cu) (Fe)	J         J           S         Turbidity (NTU)           #DIV/0!         #DIV/0!           pplicable or write 1         (8141) (Oil & Gi           (8141) (Oil & Gi         (1000) (CO3) (CV)           (NO2)         (Pb) (Mg) (Mn) (100)	(ft) mon-standard at rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OR OR O
(By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (8260) (8010 (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 416.7 416.7 416.8 417.0 417.0 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N MH) (NWTPH ictivity) (TDS C) (Total PO- le) (WAD Cy 0) (As) (Sb) ( etals) (As) (Sb)	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-GX PH-DX) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	ORP (mV) 115.1 114.7 114.10 113.9 114.5 TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity h) (NH3) (NO3 (Cr) (Cu) (Fe)	J         J           S         Turbidity (NTU)           #DIV/0!         #DIV/0!           pplicable or write 1         (8141) (Oil & Gi           (8141) (Oil & Gi         (1000) (CO3) (CV)           (NO2)         (Pb) (Mg) (Mn) (100)	(ft) mon-standard at rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OR OR O
(By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (8260) (8010 (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 416.7 416.8 417.0 417.0 417.0 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N MH) (NWTPH ictivity) (TDS C) (Total PO- le) (WAD Cy 0) (As) (Sb) ( etals) (As) (Sb)	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-GX PH-DX) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	ORP (mV) 115.1 114.7 114.10 113.9 114.5 TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity h) (NH3) (NO3 (Cr) (Cu) (Fe)	J         J           S         Turbidity (NTU)           #DIV/0!         #DIV/0!           pplicable or write 1         (8141) (Oil & Gi           (8141) (Oil & Gi         (1000) (CO3) (CV)           (NO2)         (Pb) (Mg) (Mn) (100)	(ft) mon-standard at rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OR OR O
(By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	tl Order) iption (color, t Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth others	Cond. (uS/cm) 416.7 416.8 417.0 417.0 417.0 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N MH) (NWTPH ictivity) (TDS C) (Total PO- le) (WAD Cy 0) (As) (Sb) ( etals) (As) (Sb)	D.O. (mg/L) 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	CLEAR CO pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-GX PH-DX) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	ORP (mV) 115.1 114.7 114.10 113.9 114.5 TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity h) (NH3) (NO3 (Cr) (Cu) (Fe)	J         J           S         Turbidity (NTU)           #DIV/0!         #DIV/0!           pplicable or write 1         (8141) (Oil & Gi           (8141) (Oil & Gi         (1000) (CO3) (CV)           (NO2)         (Pb) (Mg) (Mn) (100)	(ft) mon-standard at rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	Ferrous iron (Fe II)	Observations OR OR O

Signature: CEB

Date: 8/14/2018



Project Nan	ne:	Boeing Ren	ton		Project Numbe	er:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/14 /2018@	700		
Sample Nur	nber:	RGWDUP4	180814		Weather:	CLEAR			
Landau Rep	presentative:	CEB							
WATER LEY	VEL/WELL/P	URGE DATA							
Well Condition		Secure (YES)	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	5.1	Time:	-	Flow through ce	ll vol.		GW Meter No.(s	1
	Date/Time:		717	End Purge:	-	8/14 /2018 @	7.34	Gallons Purged:	0.25
Purge water of	disposed to:		55-gal Drum	Ē.	Storage Tank	Ground		SITE TREATM	ENT SYSTEM
	Тетр	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	рп	(mV)	(NTU)	(ft)	Volume (gal)	Observations
						dings within the fo		>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
		ווות			O RGV	W014S			
						10143			
	_					-			
						·	·		
SAMPLE CO	DLLECTION I								
Sample Colle			Bailer		Pump/Pump Type	e DED BLADDER			
Made of:		Stainless Stee	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other		1	423				
Sample Desc	ription (color,	turbidity, odor,	sheen, etc.):	CLEAR CO	LORLESS NO/N	S			
Replicate									
	Temp	Cond.	D.O. (mg/L.)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron	Comments/ Observations
1	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)		( <b>mV</b> )	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	(° <b>F/°Ĉ</b> ) 21.5	( <b>uS/cm</b> ) 416.8	( <b>mg/L</b> ) 0.51	6.28	( <b>mV</b> ) 114.9				
1 2	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)		( <b>mV</b> )				
	(° <b>F/°Ĉ</b> ) 21.5	( <b>uS/cm</b> ) 416.8	( <b>mg/L</b> ) 0.51	6.28	( <b>mV</b> ) 114.9	(NTU)			
2	(° <b>F</b> /° <b>Ĉ</b> ) 21.5 21.5	( <b>uS/cm</b> ) 416.8 416.9	(mg/L) 0.51 0.51	6.28 6.28	( <b>mV</b> ) 114.9 114.4	(NTU)			
2 3	(° <b>F</b> /° <b>Ĉ</b> ) 21.5 21.5 21.5	(uS/cm) 416.8 416.9 417.0	(mg/L) 0.51 0.51 0.52	6.28 6.28 6.28	(mV) 114.9 114.4 114.00	(NTU)			
2 3 4 Average:	(° <b>F</b> /° <b>Ĉ</b> ) <u>21.5</u> <u>21.5</u> <u>21.5</u> <u>21.5</u> <u>21.5</u> <u>21.5</u> <u>21.5</u>	(uS/cm) 416.8 416.9 417.0 417.0 416.9	(mg/L) 0.51 0.52 0.51 0.51	6.28 6.28 6.28 6.28 6.28 6.28	(mV) <u>114.9</u> <u>114.4</u> <u>114.00</u> <u>113.3</u> <u>114.2</u>	(NTU) #DIV/0!	(ft)	(Fe II)	
2 3 4 Average:	(°F/°Ĉ) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	(uS/cm) 416.8 416.9 417.0 417.0 416.9 NALYSIS AL	(mg/L) 0.51 0.52 0.51 0.51 0.51	6.28 6.28 6.28 6.28 6.28 6.28 6.28 8.7 BOTTLE	(mV) 114.9 114.4 114.00 113.3 114.2 TYPE (Circle a)	(NTU)	(ft)	(Fe II)	Observations
2 3 4 Average:	(°F/°Ĉ) 21.5 21.5 21.5 21.5 21.5 21.5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(uS/cm) 416.8 416.9 417.0 417.0 417.0 416.9 NALYSIS AL 0) (8020) (N	(mg/L) 0.51 0.52 0.51 0.51 0.51 LOWED PE WTPH-G) (	6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx)	(mV) 114.9 114.4 114.00 113.3 114.2 TYPE (Circle a (BTEX)	(NTU) #DIV/0!	(ft)	(Fe II)	
2 3 4 Average:	(°F/°Č) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (P/	(uS/cm) 416.8 416.9 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N AH) (NWTPH	(mg/L) 0.51 0.52 0.51 0.51 LOWED PE WTPH-G) ( I-D) (NWTF	6.28 6.28 6.28 6.28 6.28 6.28 6.28 6.28	(mV) 114.9 114.4 114.00 113.3 114.2 TYPE (Circle a (BTEX) I-HCID) (8081)	(NTU) #DIV/0!	(ft)	(Fe II)	Observations
2 3 4 Average:	(°F/°Ĉ) 21.5 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (P4) (8270D) (P4) (COD) (TO)	(uS/cm) 416.8 416.9 417.0 417.0 417.0 416.9 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4	(mg/L) 0.51 0.51 0.52 0.51 0.51 LOWED PH WTPH-G) (1 WTPH-G) (1 WTPH-G	6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-OX) PH-Dx) (TPH-OX) OD) (Turbio dahl Nitrogen	(mV) 114.9 114.4 114.00 113.3 114.2 TYPE (Circle a (BTEX) I-HCID) (8081)	(NTU) #DIV/0! pplicable or write ( (8141) (Oil & G ) (HCO3/CO3) ((	(ft)	(Fe II)	Observations
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2 3 4 Average: QUANTITY 3 1	(°F/°Ĉ) 21.5 21.5 21.5 21.5 21.5 21.5 (TYPICAL A (8260) (8014 (8270D) (P/ (8270D) (P/ (COD) (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO	(uS/cm) 416.8 416.9 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 b) (AS) (Sb) (1) etals) (As) (Sb) g short list) nane Ethene Act	(mg/L) 0.51 0.51 0.51 0.51 0.51 LOWED PE WTPH-G) ( I-D) (NWTF 3) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-OX) PH-Dx) (TPH-OX) PH-Dx) (TPH-OX) OD) (Turbid dahl Nitroger Cyanide) 0) (Cd) (Co)	(mV) 114.9 114.4 114.00 113.3 114.2 TYPE (Circle a (BTEX) H-HCID) (8081) dity) (Alkalinity (NH3) (NO3 (Cr) (Cu) (Fe)	(NTU) #DIV/0! pplicable or write 1 (8141) (Oil & G ) (HCO3/CO3) (( /NO2) (Pb) (Mg) (Mn) ()	(ft) 	(Fe II)	Observations OR OR OR OR OR
2 3 4 Average:	(°F/°Ĉ) 21.5 21.5 21.5 21.5 21.5 21.5 (TYPICAL A (8260) (8014 (8270D) (P/ (8270D) (P/ (COD) (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO	(uS/cm) 416.8 416.9 417.0 417.0 417.0 416.9 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 de) (WAD Cy. ) (As) (Sb) (1 etals) (As) (Sb) g short list)	(mg/L) 0.51 0.51 0.51 0.51 0.51 LOWED PE WTPH-G) ( I-D) (NWTF 3) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-OX) PH-Dx) (TPH-OX) PH-Dx) (TPH-OX) OD) (Turbid dahl Nitroger Cyanide) 0) (Cd) (Co)	(mV) 114.9 114.4 114.00 113.3 114.2 TYPE (Circle a (BTEX) H-HCID) (8081) dity) (Alkalinity (NH3) (NO3 (Cr) (Cu) (Fe)	(NTU) #DIV/0! pplicable or write 1 (8141) (Oil & G ) (HCO3/CO3) (( /NO2) (Pb) (Mg) (Mn) ()	(ft) 	(Fe II)	Observations OR OR OR OR OR
2 3 4 Average: <b>QUANTITY</b> 3 1	(°F/°Ĉ) 21.5 21.5 21.5 21.5 21.5 21.5 (TYPICAL A (8260) (8014 (8270D) (P/ (8270D) (P/ (COD) (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TOO	(uS/cm) 416.8 416.9 417.0 417.0 417.0 416.9 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 b) (AS) (Sb) (1) etals) (As) (Sb) g short list) nane Ethene Act	(mg/L) 0.51 0.51 0.51 0.51 0.51 LOWED PE WTPH-G) ( I-D) (NWTF 3) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	6.28 6.28 6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-OX) PH-Dx) (TPH-OX) PH-Dx) (TPH-OX) OD) (Turbid dahl Nitroger Cyanide) 0) (Cd) (Co)	(mV) 114.9 114.4 114.00 113.3 114.2 TYPE (Circle a (BTEX) H-HCID) (8081) dity) (Alkalinity (NH3) (NO3 (Cr) (Cu) (Fe)	(NTU) #DIV/0! pplicable or write 1 (8141) (Oil & G ) (HCO3/CO3) (( /NO2) (Pb) (Mg) (Mn) ()	(ft) 	(Fe II)	Observations OR OR OR OR OR



Project Nam	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 14 /2018@	745		
Sample Nun	nber:	RGW147S-	180814		Weather:	70S SMOKY			
Landau Rep		SRB			-				
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	(O)	Describe:			
DTW Before	Purging (ft)	4.71	Time:	714	Flow through cel	l vol.		GW Meter No.(s	HERON3
Begin Purge:	Date/Time:	8/14 /2018	715	End Purge:	Date/Time:	8/ 14 /2018 @	735	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C) Purge Cos	(uS/cm)	(mg/L)	tors for three	(mV)	(NTU) lings within the fo	(ft) Nowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
718	19.6	1832.0	1.02	4.42	79.8	LOW	4.71		
721	20.2	2476.0	0.65	4.44	54.5		4.71		
724	20.3	2538.0	0.61	4.57	50.0		4.71		
727	20.4	2607.0	0.53	4.60	38.2				
730	20.4	2615.0	0.52	4.60	35.9				
733	20.4	2613.0	0.51	4.60	34.6				
						-			
	·						·		
SAMPLE CO	LLECTION D	ATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	ıl Order)	Other							
Sample Descr	ription (color, t	urbidity, odor,	sheen, etc.):	CLEAR CO	LORLESS ROTTI	EN ODOR NO SHE	EEN		
Replicate	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Ferrous iron	Comments/
	(° <b>F</b> /° <b>C</b> )	(uS/cm)	(mg/L)	I	(mV)	(NTU)	(ft)	(Fe II)	Observations
1	20.4	2615.0	0.51	4.60	34.0				
2	20.4	2619.0	0.52	4.60	33.9				
3	20.4	2617.0	0.53	4.60	33.4				
4	20.5	2619.0	0.51	4.60	33.1				
Average:	20.4	2617.5	0.52	4.60	33.6	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LOWED PE	R BOTTLE	TYPE (Circle ap	plicable or write n	on-standard an	alysis below)	
3	( <b>8260</b> ) (8010	D) (8020) (N	WTPH-G) (	NWTPH-Gx)	(BTEX)			WA 🗆	OR 🗆
	(8270D) (PA	AH) (NWTPH	I-D) (NWTP	H-Dx) (TPH	I-HCID) (8081)	(8141) (Oil & Gro	ease)	WA 🗆	OR 🗆
						(HCO3/CO3) (Cl	l) (SO4) (NO3	) (NO2) (F)	
1			<i>(</i> )		) (NH3) (NO3/1	NO2)			
		e) (WAD Cy (As) (Sb) (			(Cr) $(Cu)$ $(Ec)$ $($	$\mathbf{D}$ (Ma) (Ma) (N	$(\Lambda \alpha)$ (Sa) (T	$(\mathbf{V})$ $(\mathbf{Z}_{\mathbf{n}})$ $(\mathbf{H}_{\mathbf{d}})$	$(\mathbf{K})$ $(\mathbf{N}_{\mathbf{a}})$
						$\frac{Pb}{Ma} (Mg) (Mn) (Ni) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg$			(K) (Na) a) (Hardness) (Silica)
	VOC (Boein		, (Du) (DU) (C	u) (Cu) (C0)		<u>, (1416) (1411) (141) (1</u>	15/(50/(11)(V)	$(2\pi)$ (116) (1X) (1V	(Jinea)
		ane Ethene Ac	etylene						
	others								
Duplicate Sar	nple No(s):								

Signature: SRB

Date: 8/14/2018



•	e:	Boeing Ren	iton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/14 /2018@	923		
Sample Num	ber:	RGW149S-	-		Weather:	SUNNY			
Landau Repr	-	CEB			-				
WATER LEV	EL/WELL/DI	IRCEDATA							
WATER LEV Well Condition		Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before I		5.2	Time:	-	Flow through cel			GW Meter No.(s	. 1
Begin Purge:				End Purge:	-	8/14 /2018 @	911	Gallons Purged:	0.25
Purge water di			55-gal Drum	Ē.	Storage Tank	Ground	_	SITE TREATM	
i uige water ui	-		-						
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
				ters for three		lings within the fo		>/= 1 flow	Obset vations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
852	17.8	237.9	0.29	6.05	131.8	LOW	5.20		
855	18.1	237.6	0.27	6.17	119.8		5.20		
858	18.1	236.5	0.24	6.19	117.0		5.22		
901	18.0	233.6	0.27	6.23	112.9		0.22		
904	18.0	231.7	0.26	6.24	109.4				
907	17.9	225.7	0.28	6.25	104.6				
SAMPLE CO	LLECTION D								
Sample Collec	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
-	_								
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Made of: Decon Procedu	ure:	Stainless Ste Alconox Wa	el 🔲			Polyethylene	Other	Dedicated	
Made of: Decon Procedu (By Numerical	ure:	Stainless Ste Alconox Wa	el 🗍 sh 🗍	PVC Tap Rinse	Teflon DI Water	Polyethylene	D Other	Dedicated	
Made of: Decon Procedu (By Numerical	ure:	Stainless Ste Alconox Wa	el 🗍 sh 🗍	PVC Tap Rinse	Teflon	Polyethylene	Other	Dedicated	
Made of: Decon Procedu (By Numerical Sample Descri	ure:	Stainless Ste Alconox Wa Other urbidity, odor	el	PVC Tap Rinse CLEAR CO	Teflon DI Water	Polyethylene Dedicated		~	Comments/
Made of: Decon Procedu (By Numerical	ure:	Stainless Ste Alconox Wa	el 🗍 sh 🗍	PVC Tap Rinse	Teflon DI Water	Polyethylene	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Made of: Decon Procedu (By Numerical Sample Descri	ure:	Stainless Ste Alconox Wa Other urbidity, odor Cond. (uS/cm)	el sh , sheen, etc.):_ D.O. (mg/L)	PVC Tap Rinse CLEAR CO pH	Teflon DI Water LORLESS NO/NS ORP (mV)	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Procedu (By Numerical Sample Descri Replicate	ure: <i>l Order)</i> iption (color, t <b>Temp</b> (°F/°C) <u>18.0</u>	Stainless Ste Alconox Wa D Other urbidity, odor Cond. (uS/cm) 223.7	el	PVC Tap Rinse CLEAR COI pH 6.25	Teflon DI Water	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Procedu ( <i>By Numerical</i> Sample Descri Replicate 1 2	ure: <i>l Order)</i> iption (color, t <b>Temp</b> (°F/°C) <u>18.0</u> <u>18.0</u>	Stainless Ste Alconox Wa D Other urbidity, odor Cond. (uS/cm) 223.7 223.2	el	PVC Tap Rinse CLEAR COI <b>pH</b> 6.25 6.25	Teflon     DI Water  LORLESS NO/NS  ORP (mV)  103.3  102.9	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Procedu (By Numerical Sample Descri Replicate	ure: <i>l Order)</i> iption (color, t <b>Temp</b> (°F/°C) <u>18.0</u> <u>18.0</u> <u>18.0</u>	Stainless Ste Alconox Wa D Other urbidity, odor Cond. (uS/cm) 223.7 223.2 222.9	el	PVC Tap Rinse CLEAR COI <b>pH</b> 6.25 6.25 6.25	Teflon     DI Water     DI Water     ORP     (mV)     103.3     102.9     102.50	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Procedu ( <i>By Numerical</i> Sample Descri Replicate 1 2	ure: <i>l Order)</i> iption (color, t <b>Temp</b> (°F/°C) <u>18.0</u> <u>18.0</u>	Stainless Ste Alconox Wa D Other urbidity, odor Cond. (uS/cm) 223.7 223.2	el	PVC Tap Rinse CLEAR COI <b>pH</b> 6.25 6.25	Teflon     DI Water  LORLESS NO/NS  ORP (mV)  103.3  102.9	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Procedu (By Numerical Sample Descri Replicate	ure: <i>l Order)</i> iption (color, t <b>Temp</b> (°F/°C) <u>18.0</u> <u>18.0</u> <u>18.0</u>	Stainless Ste Alconox Wa D Other urbidity, odor Cond. (uS/cm) 223.7 223.2 222.9	el	PVC Tap Rinse CLEAR COI <b>pH</b> 6.25 6.25 6.25	Teflon     DI Water     DI Water     ORP     (mV)     103.3     102.9     102.50	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Proceed (By Numerical Sample Descri Replicate 1 2 3 4 Average:	ure: <i>l Order)</i> iption (color, t <b>Temp</b> (°F/°C) <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u>	Stainless Ste Alconox Wa D Other urbidity, odor <u>Cond.</u> (uS/cm) <u>223.7</u> <u>223.2</u> <u>222.9</u> <u>222.6</u> <u>223.1</u>	el sh b.O. (mg/L) 0.26 0.26 0.26 0.27 0.26	PVC Tap Rinse CLEAR CO <b>pH</b> 6.25 6.25 6.25 6.25 6.25 6.25	Teflon     DI Water     DI Water     UORLESS NO/NS     ORP     (mV)     103.3     102.9     102.50     102.2     102.7	Polyethylene Dedicated Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	
Made of: Decon Proceed (By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY	ure: <i>l Order)</i> iption (color, t <b>Temp</b> (°F/°C) <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u>	Stainless Ste Alconox Wa Other urbidity, odor <u>Cond.</u> (uS/cm) <u>223.7</u> <u>223.2</u> <u>222.9</u> <u>222.6</u> <u>222.6</u> <u>223.1</u> NALYSIS AI	el sh b.O. (mg/L) 0.26 0.26 0.26 0.27 0.26	PVC Tap Rinse CLEAR COI <b>pH</b> 6.25 6.25 6.25 6.25 6.25 6.25 8.80TTLE	Teflon     DI Water     DI Water     ORP     (mV)     103.3     102.9     102.50     102.2     102.7      TYPE (Circle ag	Polyethylene Dedicated	DTW (ft)	Ferrous iron (Fe II)	
Made of: Decon Proceed (By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	ure: <i>l Order)</i> iption (color, t <b>Temp</b> (°F/°C) <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u> <u>18.0</u>	Stainless Ste Alconox Wa D Other urbidity, odor <u>Cond.</u> (uS/cm) <u>223.7</u> <u>223.2</u> <u>222.9</u> <u>222.6</u> <u>223.1</u> NALYSIS AI )) (8020) (N	el sh b.O. (mg/L) 0.26 0.26 0.26 0.27 0.26 0.27 0.26 UVTPH-G) (1)	PVC Tap Rinse CLEAR COI <b>pH</b> 6.25 6.25 6.25 6.25 6.25 6.25 8.80TTLE NWTPH-Gx)	☐ Teflon ☐ DI Water LORLESS NO/NS ORP (mV) 103.3 102.9 102.50 102.2 102.7 TYPE (Circle age (BTEX)	Polyethylene Dedicated Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Observations
Made of: Decon Proceed (By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	ure: l Order) iption (color, t Temp (°F/°C) 18.0 18.0 18.0 18.0 18.0 18.0 18.0 (%ZOD) (PA (%Z70D) (PA (%Z70D) (PA)	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 223.7 223.2 222.9 222.6 223.1 NALYSIS AI 0) (8020) (N H) (NWTPH Ictivity) (TD)	el  sh  b.o. (mg/L) 0.26 0.26 0.26 0.26 0.27 0.26 0.27 0.26 UVTPH-G) (1 -D) (NWTP S) (TSS) (B	PVC Tap Rinse CLEAR CO <b>pH</b> 6.25 6.25 6.25 6.25 6.25 6.25 6.25 6.25	☐ Teflon ☐ DI Water LORLESS NO/NS ORP (mV) 103.3 102.9 102.50 102.2 102.7 TYPE (Circle ag (BTEX) H-HCID) (8081) dity) (Alkalinity)	Polyethylene Dedicated Turbidity (NTU) #DIV/0! (8141) (Oil & Gi (HCO3/CO3) (C)	DTW (ft)	Ferrous iron (Fe II)	Observations
Made of: Decon Proceed (By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	ure: l Order) iption (color, t Temp (°F/°C) 18.0 18.0 18.0 18.0 18.0 18.0 18.0 (8270D) (PA (8270D) (PA (9H) (Condu (COD) (TOC	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 223.7 223.2 222.9 222.6 223.1 NALYSIS AI 0) (8020) (N AH) (NWTPH uctivity) (TDS C) (Total PO	el  sh sh D.O. (mg/L) 0.26 0.26 0.26 0.27 0.26 0.26 0.27 0.26 UDOWED PE WTPH-G) ( H-D) (NWTP S) (TSS) (B 4) (Total Kie	PVC Tap Rinse CLEAR COI pH 6.25 6.25 6.25 6.25 6.25 6.25 6.25 6.25	☐ Teflon ☐ DI Water LORLESS NO/NS ORP (mV) 103.3 102.9 102.50 102.2 102.7 TYPE (Circle ap (BTEX) H-HCID) (8081)	Polyethylene Dedicated Turbidity (NTU) #DIV/0! (8141) (Oil & Gi (HCO3/CO3) (C)	DTW (ft)	Ferrous iron (Fe II)	Observations
Made of: Decon Proceed (By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	ure: l Order) iption (color, t Temp (°F/°C) 18.0 18.0 18.0 18.0 18.0 18.0 18.0 (8200) (8010 (8270D) (PA (8270D) (PA (9H) (Condu (COD) (TOC (Total Cyanid	Stainless Ste Alconox Wa Other urbidity, odor 223.7 223.2 222.9 222.6 223.1 NALYSIS AI )) (8020) (N XH) (NWTPH Ictivity) (TDS C) (Total PO- e) (WAD Cy	el  sh sh b.O. (mg/L) 0.26 0.26 0.26 0.26 0.27 0.26 UVTPH-G) (0 H-D) (NWTP S) (TSS) (B 4) (Total Kiewanide) (Free	PVC Tap Rinse CLEAR COI pH 6.25 6.25 6.25 6.25 6.25 6.25 6.25 6.25	☐ Teflon ☐ DI Water LORLESS NO/NS ORP (mV) 103.3 102.9 102.50 102.2 102.7 TYPE (Circle ap (BTEX) 1-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Polyethylene Dedicated Turbidity (NTU) #DIV/0! #DIV/0! (8141) (Oil & G (HCO3/CO3) (C NO2)	DTW (ft) non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations Observations OR
Made of: Decon Proceed (By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Ure: l Order) iption (color, t Temp (°F/°C) 18.0 18.0 18.0 18.0 18.0 18.0 18.0 (°E/°C) (°F/°C) 18.0 (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°F/°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C)	Stainless Ste Alconox Wa Dther urbidity, odor Cond. (uS/cm) 223.7 223.2 222.9 222.6 223.1 NALYSIS AI 0) (8020) (N AH) (NWTPH uctivity) (TDS C) (Total PO- e) (WAD Cy 0) (As) (Sb) (	el  sh  b.C. (mg/L) 0.26 0.26 0.26 0.26 0.27 0.26 0.27 0.26 UVTPH-G) (I H-D) (NWTP S) (TSS) (B 4) (Total Kier ranide) (Free Ba) (Be) (Ca	PVC Tap Rinse CLEAR COI pH 6.25 6.25 6.25 6.25 6.25 6.25 6.25 6.25	Teflon     DI Water     DI Water     DI Water     ORP     (mV)     103.3     102.9     102.50     102.7     TYPE (Circle ag     (BTEX)     H-HCID) (8081)     dity) (Alkalinity)     (NH3) (NO3/     (Cr) (Cu) (Fe) (	Polyethylene Dedicated Turbidity (NTU) #DIV/0! #DIV/0! (8141) (Oil & G (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (I	DTW (ft) non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II)	Observations OB Contemporation OR Contemporation OR Contemporation () (K) (Na)
Made of: Decon Proceed (By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Ure: l Order) iption (color, t Temp (°F/°C) 18.0 18.0 18.0 18.0 18.0 18.0 (8260) (8010 (8270D) (PA (8260) (8010) (8270D) (PA (9H) (Condu (COD) (TOO (Total Cyanid (Dissolved Materials) (Dissolved Materials)	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 223.7 223.2 222.9 222.6 223.1 NALYSIS AI 0) (8020) (N KH) (NWTPH Ictivity) (TDS C) (Total PO- e) (WAD Cy 0) (As) (Sb) (Ste etals) (As) (Ste)	el  sh  b.C. (mg/L) 0.26 0.26 0.26 0.26 0.27 0.26 0.27 0.26 UVTPH-G) (I H-D) (NWTP S) (TSS) (B 4) (Total Kier ranide) (Free Ba) (Be) (Ca	PVC Tap Rinse CLEAR COI pH 6.25 6.25 6.25 6.25 6.25 6.25 6.25 6.25	Teflon     DI Water     DI Water     DI Water     ORP     (mV)     103.3     102.9     102.50     102.7     TYPE (Circle ag     (BTEX)     H-HCID) (8081)     dity) (Alkalinity)     (NH3) (NO3/     (Cr) (Cu) (Fe) (	Polyethylene Dedicated Turbidity (NTU) #DIV/0! #DIV/0! (8141) (Oil & G (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (I	DTW (ft) non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II)	Observations OB Control Contro
Made of: Decon Proceed (By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Ure: l Order) iption (color, t Temp (°F/°C) 18.0 18.0 18.0 18.0 18.0 18.0 18.0 (8270D) (PA (8270D) (PA (8270D) (PA (8270D) (PA (8270D) (PA (9H) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals)	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 223.7 223.2 222.9 222.6 223.1 NALYSIS AI 0) (8020) (N H) (NWTPH ctivity) (TD) C) (Total PO- e) (WAD Cy ) (As) (Sb) ( etals) (As) (St g short list)	el  sh  b.o. (mg/L) 0.26 0.26 0.26 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.26 0.26 0.27 0.26 0.26 0.26 0.26 0.27 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26	PVC Tap Rinse CLEAR COI pH 6.25 6.25 6.25 6.25 6.25 6.25 6.25 6.25	Teflon     DI Water     DI Water     DI Water     ORP     (mV)     103.3     102.9     102.50     102.7     TYPE (Circle ag     (BTEX)     H-HCID) (8081)     dity) (Alkalinity)     (NH3) (NO3/     (Cr) (Cu) (Fe) (	Polyethylene Dedicated Turbidity (NTU) #DIV/0! #DIV/0! (8141) (Oil & G (HCO3/CO3) (C NO2) Pb) (Mg) (Mn) (I	DTW (ft) non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II)	Observations OB Control Contro
Made of: Decon Proceed (By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Ure: l Order) iption (color, t Temp (°F/°C) 18.0 18.0 18.0 18.0 18.0 18.0 18.0 (8270D) (PA (8270D) (PA (8270D) (PA (8270D) (PA (8270D) (PA (9H) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals)	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 223.7 223.2 222.9 222.6 223.1 NALYSIS AI 0) (8020) (N KH) (NWTPH Ictivity) (TDS C) (Total PO- e) (WAD Cy 0) (As) (Sb) (Ste etals) (As) (Ste)	el  sh  b.o. (mg/L) 0.26 0.26 0.26 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.26 0.26 0.27 0.26 0.26 0.26 0.26 0.27 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26	PVC Tap Rinse CLEAR COI pH 6.25 6.25 6.25 6.25 6.25 6.25 6.25 6.25	Teflon     DI Water     DI Water     DI Water     ORP     (mV)     103.3     102.9     102.50     102.7     TYPE (Circle ag     (BTEX)     H-HCID) (8081)     dity) (Alkalinity)     (NH3) (NO3/     (Cr) (Cu) (Fe) (	Polyethylene Polye	DTW (ft) non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II)	Observations OB Control Contro
Made of: Decon Proceed (By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Ure: l Order) iption (color, t Temp (°F/°C) 18.0 18.0 18.0 18.0 18.0 18.0 18.0 (8270D) (PA (8270D) (PA (8270D) (PA (8270D) (PA (8270D) (PA (9H) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals)	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 223.7 223.2 222.9 222.6 223.1 NALYSIS AI 0) (8020) (N H) (NWTPH ctivity) (TD) C) (Total PO- ce) (WAD Cy 0) (As) (Sb) ( etals) (As) (St g short list)	el  sh  b.o. (mg/L) 0.26 0.26 0.26 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.26 0.26 0.27 0.26 0.26 0.26 0.26 0.27 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26	PVC Tap Rinse CLEAR COI pH 6.25 6.25 6.25 6.25 6.25 6.25 6.25 6.25	Teflon     DI Water     DI Water     DI Water     ORP     (mV)     103.3     102.9     102.50     102.7     TYPE (Circle ag     (BTEX)     H-HCID) (8081)     dity) (Alkalinity)     (NH3) (NO3/     (Cr) (Cu) (Fe) (	Polyethylene Polye	DTW (ft) non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II)	Observations Observations OR
Made of: Decon Procedu (By Numerical Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3 5 5	Ure: l Order) iption (color, t Temp (°F/°C) 18.0 18.0 18.0 18.0 18.0 18.0 18.0 (8270D) (PA (8270D) (PA (8270D) (PA (8270D) (PA (8270D) (PA (9H) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals)	Stainless Ste Alconox Wa Dother urbidity, odor Cond. (uS/cm) 223.7 223.2 222.9 222.6 223.1 NALYSIS AI 0) (8020) (N H) (NWTPH ctivity) (TD) C) (Total PO- ce) (WAD Cy 0) (As) (Sb) ( etals) (As) (St g short list)	el  sh  b.o. (mg/L) 0.26 0.26 0.26 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.27 0.26 0.26 0.27 0.26 0.27 0.26 0.26 0.26 0.27 0.26 0.26 0.26 0.26 0.27 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26	PVC Tap Rinse CLEAR COI pH 6.25 6.25 6.25 6.25 6.25 6.25 6.25 6.25	Teflon     DI Water     DI Water     DI Water     ORP     (mV)     103.3     102.9     102.50     102.7     TYPE (Circle ag     (BTEX)     H-HCID) (8081)     dity) (Alkalinity)     (NH3) (NO3/     (Cr) (Cu) (Fe) (	Polyethylene Polye	DTW (ft) non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II)	Observations

P:\8888 - Boeing Renton\02 Data Management\2018\3Q2018\field data\Landau Files\AOC60\_8.14.18\_CEB.xlsx

Comments:

Signature: CEB



•	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 14 /2018@	945		
Sample Num	ber:	RGW150S-	180814		Weather:	70S SMOKY			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PL	RGE DATA							
Well Condition		Secure (YES)	)	Damaged (N	O)	Describe:			
DTW Before I	Purging (ft)	5.11	Time:	-	Flow through cel	l vol.		GW Meter No.(s	HERON3
Begin Purge:	0 0 0			End Purge:		8/ 14 /2018 @	930	Gallons Purged:	
Purge water di			55-gal Drum	Ĕ.	Storage Tank	Ground		SITE TREATMI	
5	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	tong fon thug	(mV)	(NTU)	(ft)	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- $0.1$ units	+/- 10 mV	dings within the fo +/- 10%	< 0.3  ft	through cell	
918	19.5	366.0	0.29	6.46		LOW	5.13		
				·					
921	21.4	390.3	0.20	6.31					
924	21.4	391.0	0.20	6.31			5.13		
927	21.3	390.6	0.20	6.32	-3.7				
							·		
SAMPLE CO	LLECTION D	ATA							
Sample Collec	ted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	ure:	Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
	<i>,</i>		sheen, etc.):	CLEAR CO	LORLESS NO/NS				
Sample Descri	ption (color, t	urbidity, odor,				5	DTW	Ferrous iron	Comments/
	<i>,</i>		sheen, etc.): D.O. (mg/L)	CLEAR COI	LORLESS NO/NS ORP (mV)		DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	iption (color, t	urbidity, odor,	D.O.		ORP	S Turbidity			
Sample Descri	Temp (°F/°C) 21.3	urbidity, odor, Cond. (uS/cm) 390.6	<b>D.O.</b> ( <b>mg/L</b> ) 0.19	<b>рН</b> 6.32	ORP (mV) 	S Turbidity			
Sample Descri Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 21.3 21.3	Cond. (uS/cm) 390.6 390.0	D.O. (mg/L) 0.19 0.21	<b>pH</b> 6.32 6.31	ORP (mV) -3.8 -3.9	S Turbidity			
Sample Descri Replicate	Temp           (°F/°C)           21.3           21.3           21.3	Cond. (uS/cm) 390.6 390.0 389.7	D.O. (mg/L) 0.19 0.21 0.19	рН 6.32 6.31 6.32	ORP (mV) -3.8 -3.9 -4.3	S Turbidity			
Sample Descri Replicate	Temp         (°F/°C)           21.3         21.3           21.3         21.3           21.3         21.3	Cond. (uS/cm) 390.6 390.0 389.7 389.7	D.O. (mg/L) 0.19 0.21 0.19 0.19	<b>pH</b> 6.32 6.31 6.32 6.32	ORP (mV) -3.8 -3.9 -4.3 -4.4	Turbidity (NTU)			
Sample Descri Replicate	Temp           (°F/°C)           21.3           21.3           21.3	Cond. (uS/cm) 390.6 390.0 389.7	D.O. (mg/L) 0.19 0.21 0.19	рН 6.32 6.31 6.32	ORP (mV) -3.8 -3.9 -4.3	S Turbidity			
Sample Descri Replicate 1 2 3 4 Average:	Temp         (°F/°C)           21.3         21.3           21.3         21.3           21.3         21.3           21.3         21.3	Cond. (uS/cm) 390.6 390.0 389.7 389.7 390.0	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20	<b>pH</b> 6.32 6.31 6.32 6.32 6.32	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1	Turbidity (NTU)	(ft)	(Fe II)	
Sample Descri Replicate 1 2 3 4 Average: QUANTITY	Temp         (°F/°C)           21.3         21.3           21.3         21.3           21.3         21.3           21.3         21.3           21.3         (°E)           (8260)         (8010)	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 390.0 NALYSIS AL )) (8020) (N	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1	pH 6.32 6.31 6.32 6.32 6.32 8.80TTLE NWTPH-Gx)	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           21.3           21.3           21.3           21.3           21.3           21.3           21.3           (°F/°C)           (°F/°C)           (°F/°C)           21.3           (°E)           <	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 390.0 NALYSIS AL )) (8020) (N .H) (NWTPH	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (J I-D) (NWTP	pH 6.32 6.31 6.32 6.32 6.32 R BOTTLE NWTPH-GX) H-DX) (TPH	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gr	(ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           (%)           (%)           21.3           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%)           (%) </td <td>Cond. (uS/cm) 390.6 390.0 389.7 389.7 390.0 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS</td> <td>D.O. (mg/L) 0.19 0.21 0.19 0.20 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (Be</td> <td>pH 6.32 6.31 6.32 6.32 6.32 8.80TTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid</td> <td>ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) (BTEX) I-HCID) (8081) ity) (Alkalinity)</td> <td>Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil &amp; Gr (HCO3/CO3) (C</td> <td>(ft)</td> <td>(Fe II)</td> <td>Observations</td>	Cond. (uS/cm) 390.6 390.0 389.7 389.7 390.0 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS	D.O. (mg/L) 0.19 0.21 0.19 0.20 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (Be	pH 6.32 6.31 6.32 6.32 6.32 8.80TTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) (BTEX) I-HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY	Temp           (°F/°C)           21.3           21.3           21.3           21.3           21.3           21.3           21.3           (°E)	Cond. (uS/cm) 390.6 390.0 389.7 389.7 390.0 NALYSIS AL 0) (8020) (N LH) (NWTPH ctivity) (TDS C) (Total PO4	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (TSS) (B) (-D) (Total Kiec	pH <u>6.32</u> <u>6.31</u> <u>6.32</u> <u>6.32</u> <u>6.32</u> <u>R BOTTLE</u> <u>NWTPH-Gx</u> ) H-Dx) (TPH- OD) (Turbid dahl Nitrogen	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Temp           (°F/°C)           21.3           21.3           21.3           21.3           21.3           21.3           21.3           (°E)	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 390.0 NALYSIS AL )) (8020) (N kH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cyst	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1 (-D) (NWTP c) (TSS) (Be c) (Total Kiece anide) (Free b)	pH 6.32 6.31 6.32 6.32 6.32 6.32 <b>R BOTTLE</b> NWTPH-GX) H-DX) (TPH OD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2)	(ft)	(Fe II)	Observations OB OR
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Temp           (°F/°C)           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           (8260)           (8010)           (8270D)           (PA)           (COD)           (TOC)           (Total Cyanid)           (Total Metals)	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 390.0 NALYSIS AL 0) (8020) (N MH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (H	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (B0 C) (Total Kiec anide) (Free Ba) (Be) (Ca	pH 6.32 6.31 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           #DIV/0!           (8141) (Oil & Gr (HCO3/CO3) (C NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OB OR
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Temp           (°F/°C)           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           (8260)           (8010)           (8270D)           (PA)           (COD)           (TOC)           (Total Cyanid)           (Total Metals)	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 390.0 NALYSIS AL 0) (8020) (N AH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (R etals) (As) (Sb	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1 I-D) (NWTP G) (TSS) (B0 C) (Total Kiec anide) (Free Ba) (Be) (Ca	pH 6.32 6.31 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           #DIV/0!           (8141) (Oil & Gr (HCO3/CO3) (C NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OR OR OR (K) (Na)
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           (°F/°C)           (°F/°C)           21.3           21.3           (°Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 390.0 NALYSIS AL 0) (8020) (N AH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (R etals) (As) (Sb	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (-C) (-C) (-C) (-C) (-C) (-C) (-C) (-C	pH 6.32 6.31 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           #DIV/0!           (8141) (Oil & Gr (HCO3/CO3) (C NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OR OR OR (K) (Na)
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           (°F/°C)           (°F/°C)           21.3           21.3           (°Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 389.7 389.7 0 (8020) (N (NUTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (-C) (-C) (-C) (-C) (-C) (-C) (-C) (-C	pH 6.32 6.31 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           #DIV/0!           (8141) (Oil & Gr (HCO3/CO3) (C NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OR OR OR (K) (Na)
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           (°F/°C)           (°F/°C)           21.3           21.3           (°Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 389.7 389.7 0 (8020) (N (NUTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (-C) (-C) (-C) (-C) (-C) (-C) (-C) (-C	pH 6.32 6.31 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           #DIV/0!           (8141) (Oil & Gr (HCO3/CO3) (C NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OR OR OR (K) (Na)
Sample Descri Replicate  1 2 3 4 Average:  QUANTITY 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C)           21.3           21.3           21.3           21.3           21.3           21.3           21.3           21.3           (°F/°C)           (°F/°C)           21.3           21.3           (°Total Cyanid)           (Total Metals)           (Dissolved Metals)           VOC (Boein)	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 389.7 389.7 0 (8020) (N (NUTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (-C) (-C) (-C) (-C) (-C) (-C) (-C) (-C	pH 6.32 6.31 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           #DIV/0!           (8141) (Oil & Gr (HCO3/CO3) (C NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OR OR OR (K) (Na)
Sample Descri Replicate  1 2 3 4 Average:  QUANTITY 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C) 21.3 21.3 21.3 21.3 21.3 21.3 21.3 21.3	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 389.7 389.7 0 (8020) (N (NUTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (-C) (-C) (-C) (-C) (-C) (-C) (-C) (-C	pH 6.32 6.31 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           #DIV/0!           (8141) (Oil & Gr (HCO3/CO3) (C NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OR OR OR (K) (Na)
Sample Descri Replicate  1 2 3 4 Average:  QUANTITY 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C) 21.3 21.3 21.3 21.3 21.3 21.3 21.3 21.3	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 389.7 389.7 0 (8020) (N (NUTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (-C) (-C) (-C) (-C) (-C) (-C) (-C) (-C	pH 6.32 6.31 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           #DIV/0!           (8141) (Oil & Gr (HCO3/CO3) (C NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OR OR OR (K) (Na)
Sample Descri Replicate  1 2 3 4 Average:  QUANTITY 3 1 1 1 1 Duplicate Sam Comments:	Temp (°F/°C) 21.3 21.3 21.3 21.3 21.3 21.3 21.3 21.3	Cond. (uS/cm) 390.6 390.0 389.7 389.7 389.7 389.7 389.7 0 (8020) (N (NUTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.19 0.21 0.19 0.19 0.20 LOWED PE WTPH-G) (1 (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (NWTP (-D) (-C) (-C) (-C) (-C) (-C) (-C) (-C) (-C	pH 6.32 6.31 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen Cyanide) ) (Cd) (Co)	ORP (mV) -3.8 -3.9 -4.3 -4.4 -4.1 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           #DIV/0!           (8141) (Oil & Gr (HCO3/CO3) (C NO2)           Pb) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OR OR OR (K) (Na)



Project Name	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/14 /2018@	1002		
Sample Num	ber:	RGW252S-	180814		Weather:	CLEAR			
Landau Repr	resentative:	CEB							
WATER LEV	EL/WELL/PU	URGE DATA							
Well Conditio	n:	Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	5.02	Time:	931	Flow through ce	ll vol.		GW Meter No.(	s 1
Begin Purge:	Date/Time:	8/ 14 /2018	932	End Purge:	Date/Time:	8/14 /2018 @	951	Gallons Purged:	0.25
Purge water di	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	tore for three	(mV)	(NTU) dings within the fo	(ft)	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
935	21.5	615.0	0.24	6.63	89.6	LOW	5.03		
938	21.4	620.0	0.29	6.64	85.6		5.03		
941	21.4	632.0	0.39	6.65	71.1		5.03		
944	21.7	638.0	0.38	6.66	62.9				
947	21.8	639.0	0.40	6.66	61.1				
SAMPLE CO	LLECTION D	DATA							
Sample Collec	ted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	el 🗖	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced		Alconox Wa	sh 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica		Other							
Sample Descr	iption (color, t	turbidity, odor	sheen, etc.):	COLORLES	S SOME REDDI	SH PARTICULAT	ES NO/NS		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	22.0	641.0	0.43	6.66	57.5				
2	22.0	653.0	0.44	6.67	56.3				
3	22.0	653.0	0.42	6.67	55.30				
4	22.1	653.0	0.40	6.67	54.3				
Average:	22.0	650.0	0.42	6.67	55.9	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LOWED PE	R BOTTLE	TYPE (Circle a)	oplicable or write	non-standard ar	alysis below)	
	(8260) (8010	0) (8020) (N	WTPH-G) (	NWTPH-Gx)	(BTEX)	-		WA 🗆	OR 🗌
						(8141) (Oil & G		WA 🗆	OR 🗆
						(HCO3/CO3) (0	Cl) (SO4) (NO	3) (NO2) (F)	
1					) (NH3) (NO3)	/NO2)			
		$\frac{\text{le}}{(\text{WAD Cy})}$			$(\mathbf{Cr})$ $(\mathbf{Cu})$ $(\mathbf{Fe})$	(Pb) (Mg) (Mn) (1	Ni (Ag) (Se) (	$\Gamma$ (V) ( $Z_n$ ) (H	$(\mathbf{K})$ (Na)
									Na) (Hardness) (Silica
	VOC (Boein		/ (=/ (= ./ (=					/(/(/()/(-	
		ane Ethene A	etylene						
	others								
	others								
Duplicate San	ple No(s):	MSMSD Loo	ation						
Comments:									
Signature:	CEB					Date:	8/14/2018		



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A			Date/Time:	8/14 /2018@	1043		
Sample Nurr	ber:	RGW253I-	-		Weather:	HAZY 80S			
Landau Repr		CEB			-				
WATER LEV	FI/WELL/PI	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before		5.06	Time:	-	Flow through cel			GW Meter No.(s	1
Begin Purge:				End Purge:	-	8/ 14 /2018 @	1040	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ĕ	Storage Tank	Ground		SITE TREATM	
8	-		-		-				
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa	ls: Stablizatio	on of Parame		consecutive rea	dings within the fo	llowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1021	19.3	347.1	0.24	6.55	80.9	LOW	5.06		
1024	20.0	354.0	0.24	6.37	86.2		5.06		
1027	20.4	363.7	0.22	6.36	80.9		5.07		
1030	20.5	367.9	0.25	6.44	71.7				
1033	20.5	370.8	0.22	6.47	65.5				
								·	
1036		372.0	0.21	6.47	62.1				
1038	20.6	372.1	0.21	6.47	59.8				
SAMPLE CO		DATA							
Sample Collec	cted With:		Bailer			DED BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	sh 📋	Tap Rinse	DI Water	Dedicated			
(By Numerica		Other	1 ( )			7			
Sample Descr	iption (color, i	urbidity, odor	, sheen, etc.):	CLEAR CO	LORLESS NO/N	5			
Replicate	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Ferrous iron	Comments/
1	(° <b>F</b> /° <b>Ĉ</b> )	(uS/cm)	( <b>mg/L</b> )	•	( <b>mV</b> )	(NTU)	( <b>ft</b> )	(Fe II)	Observations
1	20.6	371.9	0.20	6.47	59.2				
2	20.6	371.8	0.20	6.46	58.9				
3	20.6	371.8	0.20	6.47	58.40				
4	20.6	371.9	0.20	6.47	57.8			·	
								·	
Average:	20.6	371.9	0.20	6.47	58.6	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AI	LOWED PE	ER BOTTLE	TYPE (Circle ap	plicable or write	non-standard ar	nalysis below)	
3		)) (8020) (N						WA 🗆	OR 🗌
						(8141) (Oil & G		WA 🗆	OR 🗆
1						(HCO3/CO3) (0	CI) (SO4) (NO	3) (NO2) (F)	
1		e) (WAD Cy			) (NH3) (NO3/	NO <sub>2</sub> )			
		• • •			(Cr) (Cu) (Fe) (	(Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (	T1 (V) (Zn) (Ho	y) (K) (Na)
									(Hardness) (Silica
	VOC (Boein		, , , (= - , (	, (, (-0)					, (
		ane Ethene Ad	cetylene						
	others								

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Duplicate Sample No(s):

Comments:

Signature: CEB



	e:	Boeing Rent	on		Project Number	r:	0025217.099.0	99	
Event:		Quarterly Au	igust 2018		Date/Time:	8/ 14 /2018@	915		
Sample Num	ber:	RGW254S-	180814		Weather:	70S SMOKY			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	<b>RGE DATA</b>							
Well Condition	n:	Secure (YES)		Damaged (N	0)	Describe:			
DTW Before F	Purging (ft)	5.2	Time:	844	Flow through cel	l vol.		GW Meter No.(s	HERON3
Begin Purge:	Date/Time:	8/14 /2018	845	End Purge:	Date/Time:	8/ 14 /2018 @	910	Gallons Purged:	0.25
Purge water di	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°Č)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	+/- 3%	+/- 3%	n of Parame +/- 10%	+/- 0.1 units	+/- 10 mV	dings within the fo +/- 10%	< 0.3  ft	>/= 1 flow through cell	
848	19.0	529.0	0.34	6.09	36.6	LOW	5.21	8	
851	19.2	535.0	0.33	6.15	31.7		5.21		
854	19.9	542.0	0.35	6.35	16.9		5.21		
							5.21		
857	20.1	548.0	0.32	6.44	9.0				
900	20.2	550.0	0.30	6.49	2.6				
903	20.4	556.0	0.26	6.54	-6.1				
906	20.4	557.0	0.26	6.55	-7.8				
SAMPLE COI									
Sample Collec	ted With:		Bailer			DED BLADDER		<b>—</b>	
Made of:		Stainless Steel		PVC	Teflon	Polyethylene	Dther	Dedicated	
Decon Procedu		Alconox Wash	n L	Tap Rinse	DI Water	Dedicated			
(By Numerical	<i>,</i>	Other _	shaan ata):		LORLESS NO/NS				
Sample Desen	iption (color, t	urbiuity, ouor,	sheen, etc.).	CLEAK COI	TOULTROP INOUND				
Replicate	Temp	Cond.	D.O.	pH	ORP (mV)	Turbidity	DTW (ft)	Ferrous iron	Comments/
	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)	•	( <b>mV</b> )		DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	(° <b>F</b> /°Ĉ) 20.4	( <b>uS/cm</b> ) 558.0	( <b>mg/L</b> ) 0.27	6.55	(mV) -8.5	Turbidity			
	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)	•	( <b>mV</b> )	Turbidity			
1	(° <b>F</b> /°Ĉ) 20.4	( <b>uS/cm</b> ) 558.0	( <b>mg/L</b> ) 0.27	6.55	(mV) -8.5	Turbidity			
1 2	(° <b>F</b> /° <b>Ĉ</b> ) 20.4 20.4	(uS/cm) 558.0 558.0	(mg/L) 0.27 0.27	6.55 6.56	(mV) -8.5 -9.2	Turbidity			
1 2 3	(° <b>F</b> /° <b>Ĉ</b> ) <u>20.4</u> <u>20.4</u> <u>20.4</u>	(uS/cm) 558.0 558.0 558.0	(mg/L) 0.27 0.27 0.27	6.55 6.56 6.56	(mV) 8.5 9.2 9.8	Turbidity			
1 2 3 4 Average:	(°F/°C) 20.4 20.4 20.4 20.4 20.4 20.4 20.4	(uS/cm) 558.0 558.0 558.0 558.0 558.0	(mg/L) 0.27 0.27 0.27 0.26 0.27	6.55 6.56 6.56 6.56 6.56	(mV) 8.5 9.2 9.8 10.4 9.5	Turbidity (NTU)	(ft)	(Fe II)	
1 2 3 4 Average: QUANTITY	(°F/°C) $20.4$ $20.4$ $20.4$ $20.4$ $20.4$ $20.4$ $TYPICAL A$	(uS/cm) 558.0 558.0 558.0 558.0 558.0	(mg/L) 0.27 0.27 0.26 0.26 0.27 LOWED PE	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b>	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap	Turbidity (NTU) 	(ft)	(Fe II)	
1 2 3 4 Average: QUANTITY 3	(°F/°Ĉ) <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u> <u>20.5</u>	(uS/cm) 558.0 558.0 558.0 558.0 558.0 558.0 NALYSIS ALI 0) (8020) (NV H) (NWTPH:	(mg/L) 0.27 0.27 0.26 0.27 0.26 0.27 LOWED PE WTPH-G) (1 -D) (NWTP	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gre	(ft)	(Fe II)	Observations
1 2 3 4 Average: QUANTITY 3	(°F/°Č) <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>(8260)</u> (8010) (8270D) (PA) (8270D) (PA)	(uS/cm) 558.0 558.0 558.0 558.0 558.0 NALYSIS ALI ) (8020) (N H) (NWTPH- ctivity) (TDS)	(mg/L) 0.27 0.27 0.26 0.26 0.27 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (B	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) (BTEX) (HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gre (HCO3/CO3) (C)	(ft)	(Fe II)	Observations
1 2 3 4 Average: QUANTITY 3 1	(°F/°Č) <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>(20.4)</u> <u>(8260)</u> (8010) (8270D) (PA) (9H) (Condu (COD) (TOC	(uS/cm) 558.0 558.0 558.0 558.0 558.0 NALYSIS ALI 0) (8020) (NV H) (NWTPH- ctivity) (TDS C) (Total PO4)	(mg/L) 0.27 0.27 0.26 0.26 0.27 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiee	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen)	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gre (HCO3/CO3) (C)	(ft)	(Fe II)	Observations
1 2 3 4 Average: QUANTITY 3 1	(°F/°Č) 20.4 20.4 20.4 20.4 20.4 20.4 20.4 (8260) (8010 (8270D) (PA (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid	(uS/cm) 558.0 558.0 558.0 558.0 558.0 558.0 NALYSIS ALI 0) (8020) (NV H) (NWTPH- ctivity) (TDS) C) (Total PO4) e) (WAD Cya	(mg/L) 0.27 0.27 0.26 0.27 0.26 0.27 LOWED PE WTPH-G) (I -D) (NWTP ) (TSS) (Be ) (Total Kieconic) (Free based)	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen) Cyanide)	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) (HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/f)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gru (HCO3/CO3) (CI NO2)	(ft) on-standard an ease) (SO4) (NO3)	(Fe II)	Observations
1 2 3 4 Average:	(°F/°Č) <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (9H) (Condu (COD) (TOC (Total Cyanid) (Total Metals)	(uS/cm) 558.0 558.0 558.0 558.0 558.0 0 (8020) (NV H) (NWTPH- ctivity) (TDS) (NWTPH- ctivity) (TDS) (Total PO4) e) (WAD Cya (As) (Sb) (B	(mg/L) 0.27 0.27 0.26 0.27 0.26 0.27 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec nide) (Free a) (Be) (Ca	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
1 2 3 4 Average:	(°F/°Č) <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (9H) (Condu (COD) (TOC (Total Cyanid) (Total Metals)	(uS/cm) 558.0 558.0 558.0 558.0 558.0 558.0 0 (8020) (NV H) (NWTPH- ctivity) (TDS) C) (Total PO4) e) (WAD Cya (As) (Sb) (B) ctals) (As) (Sb)	(mg/L) 0.27 0.27 0.26 0.27 0.26 0.27 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec nide) (Free a) (Be) (Ca	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
1 2 3 4 Average:	(°F/°Č) <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> (8260) (8010) (8270D) (PA) (8270D) (PA) (8270D) (PA) (0) (TOC) (Total Cyanid) (Total Metals) (Dissolved Metals) (Dissolved Metals)	(uS/cm) 558.0 558.0 558.0 558.0 558.0 558.0 0 (8020) (NV H) (NWTPH- ctivity) (TDS) C) (Total PO4) e) (WAD Cya (As) (Sb) (B) ctals) (As) (Sb)	(mg/L) 0.27 0.27 0.26 0.27 0.26 0.27 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece nide) (Free a) (Be) (Cal (Ba) (Be) (Cal	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
1 2 3 4 Average:	(°F/°Č) <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> (8260) (8010) (8270D) (PA) (8270D) (PA) (8270D) (PA) (0) (TOC) (Total Cyanid) (Total Metals) (Dissolved Metals) (Dissolved Metals)	(uS/cm) 558.0 558.0 558.0 558.0 558.0 558.0 NALYSIS ALI 0) (8020) (N° H) (NWTPH- ctivity) (TDS) C) (Total PO4) c) (VAD Cya (As) (Sb) (B etals) (As) (Sb) g short list)	(mg/L) 0.27 0.27 0.26 0.27 0.26 0.27 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece nide) (Free a) (Be) (Cal (Ba) (Be) (Cal	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
1 2 3 4 Average:	(°F/°C) 20.4 20.4 20.4 20.4 20.4 20.4 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Met VOC (Boein) Methane Eth	(uS/cm) 558.0 558.0 558.0 558.0 558.0 558.0 NALYSIS ALI 0) (8020) (N° H) (NWTPH- ctivity) (TDS) C) (Total PO4) c) (VAD Cya (As) (Sb) (B etals) (As) (Sb) g short list)	(mg/L) 0.27 0.27 0.26 0.27 0.26 0.27 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece nide) (Free a) (Be) (Cal (Ba) (Be) (Cal	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
1 2 3 4 Average:	(°F/°Č) <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> <u>20.4</u> (8260) (8010) (8270D) (PA) (8270D) (PA) (8270D) (PA) (0) (TOC) (Total Cyanid) (Total Metals) (Dissolved Metals) (Dissolved Metals)	(uS/cm) 558.0 558.0 558.0 558.0 558.0 558.0 NALYSIS ALI 0) (8020) (N° H) (NWTPH- ctivity) (TDS) C) (Total PO4) c) (VAD Cya (As) (Sb) (B etals) (As) (Sb) g short list)	(mg/L) 0.27 0.27 0.26 0.27 0.26 0.27 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece nide) (Free a) (Be) (Cal (Ba) (Be) (Cal	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
1 2 3 4 Average:	(°F/°C) 20.4 20.4 20.4 20.4 20.4 20.4 20.4 (20.4 20.4 (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4)	(uS/cm) 558.0 558.0 558.0 558.0 558.0 558.0 NALYSIS ALI 0) (8020) (N° H) (NWTPH- ctivity) (TDS) C) (Total PO4) c) (VAD Cya (As) (Sb) (B etals) (As) (Sb) g short list)	(mg/L) 0.27 0.27 0.26 0.27 0.26 0.27 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece nide) (Free a) (Be) (Cal (Ba) (Be) (Cal	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations
1 2 3 4 Average: QUANTITY 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(°F/°C) 20.4 20.4 20.4 20.4 20.4 20.4 20.4 (20.4 20.4 (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4) (20.4)	(uS/cm) 558.0 558.0 558.0 558.0 558.0 558.0 NALYSIS ALI 0) (8020) (N° H) (NWTPH- ctivity) (TDS) C) (Total PO4) c) (VAD Cya (As) (Sb) (B etals) (As) (Sb) g short list)	(mg/L) 0.27 0.27 0.26 0.27 0.26 0.27 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece nide) (Free a) (Be) (Cal (Ba) (Be) (Cal	6.55 6.56 6.56 6.56 6.56 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	(mV) -8.5 -9.2 -9.8 -10.4 -9.5 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gro (HCO3/CO3) (CI NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) (SO4) (NO3 i) (Ag) (Se) (T	(Fe II)	Observations



Project Name	e:	Boeing Ren	ton		Project Number	:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@	1345		
Sample Num	ber:	RGW163I-	180813		Weather:	70s clear			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	<b>IRGE DATA</b>							
Well Conditio	n:	Secure (YES)	)	Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	6.79	Time:	1310	Flow through cell	vol.		GW Meter No.(s	heron2
Begin Purge:	Date/Time:	8/ 13 /2018	1315	End Purge:	Date/Time:	8/ 13 /2018 @	1338	Gallons Purged:	0.25
Purge water di	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°Č)	(uS/cm)	(mg/L)	-	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	ils: Stablizatio +/- 3%	n of Parame +/- 10%	+/- 0.1 units	e consecutive read +/- 10 mV	lings within the fo +/- 10%	< 0.3  ft	>/= 1 flow through cell	
1318	20.4	370.2	0.74	6.25		LOW	6.79	un ough con	
						101	6.79		
1321	20.7	378.7	0.66	6.25	7.2				
1324	20.6	380.0	0.51	6.19	8.6		6.79		
1327	20.4	378.6	0.46	6.17	8.7				
1330	20.2	375.2	0.42	6.14	8.2				
1333	20.2	372.7	0.37	6.14	7.8				
1336	20.0	369.9	0.29	6.11	7.3				
SAMPLE CO	LLECTION D								
Sample Collec	ted With:		Bailer		Pump/Pump Type			_	
Made of:		Stainless Stee	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	h 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	,	Other	1 ( )			NONG			
Sample Descri	iption (color, t	urbially, odor,	sneen, etc.):	SLIGHTLY	YELLOW CLEAF	K INO/INS			
Replicate	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Ferrous iron	Comments/
	(0.7.10.00)		( <b>17</b> )						Observations
	(°F/°C)	(uS/cm)	(mg/L)		( <b>mV</b> )	(NTU)	(ft)	(Fe II)	Obser various
1	(° <b>F/</b> ° <b>C</b> ) 20.0		(mg/L) 0.25	6.11	6.9	(NTU)	(ft)	(14 11)	
1 2		(uS/cm)		6.11 6.10		(NTU)	(ff)	(FE II)	
	20.0	( <b>uS/cm</b> ) 369.1	0.25		6.9	(NTU)	(II)	(Fe II)	
2	<u>20.0</u> 19.9	(uS/cm) 369.1 368.7	0.25	6.10	<u> </u>	(NTU)	(II)		
2 3	20.0 19.9 19.9	(uS/cm) 369.1 368.7 368.4	0.25 0.24 0.24	6.10 6.10	6.9 6.9 6.6	(NTU) 	(ff)		
2 3 4 Average:	20.0 19.9 19.9 19.9 19.9 19.9	(uS/cm) 369.1 368.7 368.4 368.1 368.6	0.25 0.24 0.24 0.23 0.24	6.10 6.10 6.10 6.10	6.9 6.9 6.6 6.6 6.8	#DIV/0!			
2 3 4 Average:	20.0 19.9 19.9 19.9 19.9 19.9 <b>TYPICAL A</b>	(uS/cm) 369.1 368.7 368.4 368.1 368.6	0.25 0.24 0.24 0.23 0.24 LOWED PE	6.10 6.10 6.10 6.10 <b>R BOTTLE</b>	6.9 6.9 6.6 6.6 6.8 TYPE (Circle ap				OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
2 3 4 Average: QUANTITY	20.0 19.9 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010	(uS/cm) 369.1 368.7 368.4 368.4 368.6 NALYSIS AL 0) (8020) (N	0.25 0.24 0.24 0.23 0.24 LOWED PE WTPH-G) (0	6.10 6.10 6.10 6.10 <b>R BOTTLE</b> NWTPH-Gx)	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX)	#DIV/0!	on-standard an	alysis below)	
2 3 4 Average: QUANTITY 7	20.0 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu	(uS/cm) 369.1 368.7 368.4 368.4 368.6 NALYSIS AL (NWTPH (NWTPH ictivity) (TDS	0.25 0.24 0.24 0.23 0.24 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (B	6.10 6.10 6.10 6.10 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH DD) (Turbid	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) (BTEX) (HCID) (8081) ity) (Alkalinity)	#DIV/0! plicable or write n (8141) (Oil & Gra (HCO3/CO3) (Cl	ion-standard an ease)	alysis below) WA WA WA	OR
2 3 4 Average: QUANTITY 7	20.0 19.9 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO	(uS/cm) 369.1 368.7 368.4 368.4 368.6 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4	0.25 0.24 0.24 0.23 0.24 LOWED PE WTPH-G) (( I-D) (NWTP) ) (TSS) (B) ) (Total Kiee	6.10 6.10 6.10 6.10 <b>R BOTTLE</b> WTPH-Gx) H-Dx) (TPH DD) (Turbid lahl Nitrogen	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081)	#DIV/0! plicable or write n (8141) (Oil & Gra (HCO3/CO3) (Cl	ion-standard an ease)	alysis below) WA WA WA	OR
2 3 4 Average: QUANTITY 7	20.0 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	(uS/cm) 369.1 368.7 368.4 368.1 368.6 NALYSIS AL 0) (8020) (N AH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cyst	0.25 0.24 0.23 0.24 0.23 0.24 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Br ) (Total Kiec nnide) (Free	6.10 6.10 6.10 8 BOTTLE WTPH-Gx) H-Dx) (TPH OD) (Turbid lahl Nitrogen Cyanide)	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N	#DIV/0! plicable or write n (8141) (Oil & Gra (HCO3/CO3) (CI	ease) I) (SO4) (NO3	alysis below) WA WA WA ) (NO2) (F)	OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
2 3 4 Average: QUANTITY 7	20.0 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals)	(uS/cm) 369.1 368.7 368.4 368.4 368.6 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (AS) (Sb) (B	0.25 0.24 0.23 0.24 LOWED PE WTPH-G) (( -D) (NWTP) ) (TSS) (B <sup>1</sup> ) ) (Total Kied anide) (Free Ba) (Be) (Ca	6.10 6.10 6.10 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) <b>H-DX</b> ) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	#DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	i) (Ag) (Se) (T	alysis below) WA WA WA ) (NO2) (F)	OR  OR  (K) (Na)
2 3 4 Average: QUANTITY 7	20.0 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Metals)	(uS/cm) 369.1 368.7 368.4 368.4 368.1 368.6 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (R etals) (As) (Sb)	0.25 0.24 0.23 0.24 LOWED PE WTPH-G) (( -D) (NWTP) ) (TSS) (B <sup>1</sup> ) ) (Total Kied anide) (Free Ba) (Be) (Ca	6.10 6.10 6.10 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) <b>H-DX</b> ) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	#DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	i) (Ag) (Se) (T	alysis below) WA WA WA ) (NO2) (F)	OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
2 3 4 Average: QUANTITY 7	20.0 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (8270D) (PA (0D) (TOO (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	(uS/cm) 369.1 368.7 368.4 368.4 368.1 368.6 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (R etals) (As) (Sb)	0.25 0.24 0.24 0.23 0.24 LOWED PE WTPH-G) (1 I-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.10 6.10 6.10 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) <b>H-DX</b> ) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	#DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	i) (Ag) (Se) (T	alysis below) WA WA WA ) (NO2) (F)	OR  OR  (K) (Na)
2 3 4 Average: QUANTITY 7	20.0 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (8270D) (PA (0D) (TOO (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	(uS/cm) <u>369.1</u> <u>368.7</u> <u>368.4</u> <u>368.4</u> <u>368.6</u> NALYSIS AL )) (8020) (N H) (NWTPH ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (Hetals) (As) (Sb g short list)	0.25 0.24 0.24 0.23 0.24 LOWED PE WTPH-G) (1 I-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.10 6.10 6.10 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) <b>H-DX</b> ) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	#DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	i) (Ag) (Se) (T	alysis below) WA WA WA ) (NO2) (F)	OR  OR  (K) (Na)
2 3 4 Average: QUANTITY 7	20.0 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (8270D) (PA (0D) (TOO (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	(uS/cm) <u>369.1</u> <u>368.7</u> <u>368.4</u> <u>368.4</u> <u>368.6</u> NALYSIS AL )) (8020) (N H) (NWTPH ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (Hetals) (As) (Sb g short list)	0.25 0.24 0.24 0.23 0.24 LOWED PE WTPH-G) (1 I-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.10 6.10 6.10 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) <b>H-DX</b> ) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	#DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	i) (Ag) (Se) (T	alysis below) WA WA WA ) (NO2) (F)	OR  OR  (K) (Na)
2 3 4 Average: QUANTITY 7 2 2	20.0 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (8270D) (PA (0D) (TOO (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	(uS/cm) <u>369.1</u> <u>368.7</u> <u>368.4</u> <u>368.4</u> <u>368.6</u> NALYSIS AL )) (8020) (N H) (NWTPH ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (Hetals) (As) (Sb g short list)	0.25 0.24 0.24 0.23 0.24 LOWED PE WTPH-G) (1 I-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.10 6.10 6.10 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) <b>H-DX</b> ) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	#DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	i) (Ag) (Se) (T	alysis below) WA WA WA ) (NO2) (F)	OR  OR  (K) (Na)
2 3 4 Average:	20.0 19.9 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Ma VOC (Boein Methane Eth others	(uS/cm) <u>369.1</u> <u>368.7</u> <u>368.4</u> <u>368.4</u> <u>368.6</u> NALYSIS AL )) (8020) (N H) (NWTPH ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (Hetals) (As) (Sb g short list)	0.25 0.24 0.24 0.23 0.24 LOWED PE WTPH-G) (1 I-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.10 6.10 6.10 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) <b>H-DX</b> ) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	#DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	i) (Ag) (Se) (T	alysis below) WA WA WA ) (NO2) (F)	OR  OR  (K) (Na)
2 3 4 Average: QUANTITY 7 2 2	20.0 19.9 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Ma VOC (Boein Methane Eth others	(uS/cm) <u>369.1</u> <u>368.7</u> <u>368.4</u> <u>368.4</u> <u>368.6</u> NALYSIS AL )) (8020) (N H) (NWTPH ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (Hetals) (As) (Sb g short list)	0.25 0.24 0.24 0.23 0.24 LOWED PE WTPH-G) (1 I-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.10 6.10 6.10 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) <b>H-DX</b> ) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	#DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	i) (Ag) (Se) (T	alysis below) WA WA WA ) (NO2) (F)	OR  OR  (K) (Na)
2 3 4 Average: QUANTITY 7 2	20.0 19.9 19.9 19.9 19.9 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Ma VOC (Boein Methane Eth others	(uS/cm) <u>369.1</u> <u>368.7</u> <u>368.4</u> <u>368.4</u> <u>368.6</u> NALYSIS AL )) (8020) (N H) (NWTPH ictivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (Hetals) (As) (Sb g short list)	0.25 0.24 0.24 0.23 0.24 LOWED PE WTPH-G) (1 I-D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	6.10 6.10 6.10 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) <b>H-DX</b> ) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	6.9 6.9 6.6 6.6 6.8 <b>TYPE (Circle ap</b> (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	#DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	aon-standard an ease) I) (SO4) (NO3 i) (Ag) (Se) (T Ag) (Se) (TI) (V)	alysis below) WA WA WA ) (NO2) (F)	OR  OR  (K) (Na)



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/13 /2018@	1413		
Sample Num	ber:	RGW165I-	U U		Weather:	HAZY			
Landau Repr		CEB							
WATER LEV	EL/WELL/PI	IRGE DATA							
Well Conditio		Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	7.43	Time:	-	Flow through ce			GW Meter No.(s	. 1
Begin Purge:					-	8/13 /2018 @	1400	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ē	Storage Tank	Ground		SITE TREATM	
	-		-		-				
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa	ls: Stablizatio	on of Parame		e consecutive rea	dings within the fo	ollowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1345	19.9	395.5	0.19	6.00	67.4	LOW	7.59		
1348	22.0	394.3	0.19	6.00	62.3		7.61		
1351	22.5	396.2	0.25	6.06	56.3		7.60		
		397.8	0.26	6.10	51.1				
1354	22.8								
1357	23.0	397.5	0.26	6.12	47.3				
SAMPLE CO	LLECTION I	DATA							
Sample Collec	ted With:		Bailer	V	Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	el 🗖	PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated		~~	
(By Numerica	l Order)	Other				<u>́х</u>			
Sample Descr	iption (color, t	urbidity, odor	, sheen, etc.):	CLEAR CO	LORLESS NO/N	S			
								<b>.</b> .	<u> </u>
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1			-	(12		(((((()))))))))))))))))))))))))))))))))	(11)	(1011)	Obser various
1	23.0	397.3	0.28	6.13	46.2				
2	23.0	397.2	0.28	6.13	46.0				
3	23.0	397.0	0.29	6.13	45.7				
4	23.0	397.0	0.29	6.13	45.3				
Average:	23.0	397.1	0.29	6.13	45.8	#DIV/0!			
				D DATTI E	TYPE (Circle				
QUANTITY 7		$\frac{(1)}{(1)} (8020) (N)$				oplicable or write	non-standard al	WA 🗆	OR 🗆
2						(8141) (Oil & G	rease)	WA 🗆	OR 🗆
						(HCO3/CO3) (0			
					a) (NH3) (NO3)			-, (-, (-, (-, (-, (-, (-, (-, (-, (-, (	
		e) (WAD Cy				,			
					(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (	Tl) (V) (Zn) (Hg	g) (K) (Na)
									Na) (Hardness) (Silica
	VOC (Boein	g short list)							
	Methane Eth	ane Ethene Ad	cetylene						
	others								
Duplicate San	nle No(s).								

Duplicate Sample No

Comments:

Signature: CEB

Date:

8/13/2018



Project Name	e:	Boeing Ren	ton		Project Number	:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@	1230		
Sample Num	ber:	RGW175I-	180813		Weather:	70s clear			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	RGE DATA							
Well Condition	n:	Secure (YES)	1	Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	6.45	Time:	1145	Flow through cell	vol.		GW Meter No.(s	heron2
Begin Purge:	Date/Time:	8/ 13 /2018	1200	End Purge:	Date/Time:	8/ 13 /2018 @	1225	Gallons Purged:	0.25
Purge water di	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)	•	(mV)	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	lings within the fo +/- 10%	llowing limits < 0.3 ft	>/= 1 flow through cell	
1202								thi ough cen	
1203	20.8	521.0	0.20	6.24		LOW	6.85		
1206	20.8	522.0	0.19	6.25	1.0		6.86		
1209	20.9	524.0	0.27	6.26	-2.4		6.86		
1212	21.3	532.0	0.33	6.28	-6.9				
1215	21.5	535.0	0.39	6.29	-10.1				
1218	21.8	538.0	0.39	6.30	-14.0				
1221	22.0	540.0	0.40	6.31	-16.6				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	ted With:		Bailer		Pump/Pump Type	ded bladder			
Made of:		Stainless Stee	ı 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	h 🗍	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
Sample Descri	iption (color, t	urbidity, odor,	sheen, etc.):	SLIGHTLY	YELLOW AND T	URBID NO/NS			
D II i	75	<u> </u>	<b>D</b> O		ODD	<b>T</b>	DAM	Ferrous iron	Comments/
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
1	22.1	541.0	0.40	6.31	-17.4				
2	22.1	542.0	0.38	6.31	-18.3				
3	22.2	543.0	0.33	6.31	-19.0				
4	22.3	543.0	0.35	6.31	-19.5			. <u> </u>	
Average:	22.2	542.3	0.37	6.31	-18.6	#DIV/0!			
QUANTITY	TYPICAL A	NALYSIS AL	LOWED PE	R BOTTLE	TYPE (Circle ap	plicable or write n	on-standard an	alysis below)	
7	( <b>8260</b> ) (8010	)) (8020) (N	WTPH-G) (	WTPH-Gx)	(BTEX)			WA	OR 🗆
2						(8141) (Oil & Gre		WA 🗆	OR
						(HCO3/CO3) (Cl	) (SO4) (NO3	) (NO2) (F)	
					) (NH3) (NO3/N	NO2)			
		e) (WAD Cya (As) (Sb) (F			(Cr) (Cu) (Fe) (F	b) (Mg) (Mn) (N	i) (Ag) (Se) (T	]) (V) (Zn) (Ho)	(K) (Na)
									a) (Hardness) (Silica)
		g short list)							/ (
	100 (200								
		ane Ethene Ac	etylene						
		ane Ethene Ac	etylene						
	Methane Eth	ane Ethene Ac	etylene						
		ane Ethene Ac	etylene						
Duplicate Sam	Methane Eth	ane Ethene Ac	etylene						
	Methane Eth	ane Ethene Ac	etylene						



Project Name	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@	1300		
Sample Num	ber:	RGW176S-	180813		Weather:	70s clear			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	RGE DATA							
Well Condition	n:	Secure (YES)	1	Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	6.12	Time:	1215	Flow through cel	l vol.	_	GW Meter No.(s	heron2
Begin Purge:	Date/Time:	8/ 13 /2018	1235	End Purge:	Date/Time:	8/ 13 /2018 @	1245	Gallons Purged:	0.25
Purge water di	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	lls: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	lings within the fo +/- 10%	< 0.3 ft	>/= 1 flow through cell	
1238	22.3	723.0	0.19	6.28	-15.5		6.12	un ougn con	
						LOW	·		
1241	22.4	726.0	0.20	6.28	-17.1		6.12		
1244	22.6	729.0	0.20	6.28	-20.8		6.12		
							·		
SAMPLE CO	LLECTION D	ATA			·		· · · · · · · · · · · · · · · · · · ·		
Sample Collec	ted With:		Bailer		Pump/Pump Type	ded bladder			
Made of:		Stainless Stee	1	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other		Ĩ					
	<i>,</i>	Other		-	YELLOW CLEAP				
Sample Descri	ption (color, t	Uther Other urbidity, odor,	sheen, etc.):	SLIGHTLY	YELLOW CLEAR	R NO/NS	DTW	Forrousiron	Comments/
	<i>,</i>	Other		-			DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	Temp (°F/°C)	Other urbidity, odor, Cond. (uS/cm)	sheen, etc.): _ D.O. (mg/L)	SLIGHTLY pH	YELLOW CLEAF ORP (mV)	R NO/NS Turbidity			
Sample Descri Replicate	Temp (°F/°C) 22.6	Cond. (uS/cm) 729.0	sheen, etc.): _ D.O. (mg/L) 0.19	SLIGHTLY pH 6.28	VELLOW CLEAN ORP (mV) -21.8	R NO/NS Turbidity			
Sample Descri Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 22.6 22.6	Cond. (uS/cm) 729.0 729.0	sheen, etc.): _ D.O. (mg/L) 0.19 0.20	SLIGHTLY pH 6.28 6.28	VELLOW CLEAN ORP (mV) -21.8 -22.5	R NO/NS Turbidity			
Sample Descri Replicate	Temp           (°F/°C)           22.6           22.6           22.6	Cond. (uS/cm) 729.0 730.0	sheen, etc.): _ D.O. (mg/L) 0.19 0.20 0.19	SLIGHTLY pH 6.28 6.28 6.28	VELLOW CLEAR ORP (mV) -21.8 -22.5 -23.2	R NO/NS Turbidity			
Sample Descri Replicate	Temp         (°F/°C)           22.6         22.6           22.6         22.6           22.6         22.7	Cond. (uS/cm) 729.0 729.0 730.0 730.0	sheen, etc.): D.O. (mg/L) 0.19 0.20 0.19 0.19	SLIGHTLY pH 6.28 6.28 6.28 6.28 6.28	VELLOW CLEAR ORP (mV) -21.8 -22.5 -23.2 -23.7	Turbidity (NTU)			
Sample Descri Replicate	Temp           (°F/°C)           22.6           22.6           22.6	Cond. (uS/cm) 729.0 730.0	sheen, etc.): _ D.O. (mg/L) 0.19 0.20 0.19	SLIGHTLY pH 6.28 6.28 6.28	VELLOW CLEAR ORP (mV) -21.8 -22.5 -23.2	R NO/NS Turbidity			
Sample Descri Replicate 1 2 3 4 Average:	Temp         (°F/°C)           22.6         22.6           22.6         22.7           22.6         22.7	Cond. (uS/cm) 729.0 729.0 730.0 730.0 729.5	sheen, etc.): _ D.O. (mg/L) 0.19 0.20 0.19 0.19 0.19	SLIGHTLY pH 6.28 6.28 6.28 6.28 6.28 6.28 6.28	VELLOW CLEAR ORP (mV) -21.8 -22.5 -23.2 -23.7 -22.8	Turbidity (NTU)	(ft)	(Fe II)	
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 7	Temp         °C)           22.6         22.6           22.6         22.7           22.6         22.7           22.6         22.7           22.6         22.6           (S260)         (8010)	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 729.5 NALYSIS AL )) (8020) (N	sheen, etc.): D.O. (mg/L) 0.19 0.20 0.19 0.19 0.19 LOWED PE WTPH-G) (1	SLIGHTLY pH 6.28 6.28 6.28 6.28 6.28 6.28 R BOTTLE WTPH-GX)	VELLOW CLEAR ORP (mV) -21.8 -22.5 -23.2 -23.7 -23.7 -22.8 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 7 2	Temp         """"""""""""""""""""""""""""""""""""	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 729.5 NALYSIS AL )) (8020) (N	sheen, etc.): _ D.O. (mg/L) 0.19 0.19 0.19 0.19 0.19 UOWED PE WTPH-G) (1 -D) (NWTP	SLIGHTLY pH 6.28 6.28 6.28 6.28 6.28 6.28 8.28 8.28 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25	VELLOW CLEAN ORP (mV) -21.8 -22.5 -23.2 -23.7 -22.8 TYPE (Circle ap (BTEX) (8081)	Turbidity (NTU) #DIV/0! plicable or write n	(ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 7 2	Temp           (°F/°C)           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           (8260)           (8010)           (8270D)           (PH)	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 (NWTPH ctivity) (TDS	sheen, etc.): _ D.O. (mg/L) 0.19 0.19 0.19 0.19 0.19 0.19 UOWED PE WTPH-G) (1 -D) (NWTP) ) (TSS) (BC	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           0.28           0.28           0.28           0.28           0.10           0.10           0.10           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11           0.11	VELLOW CLEAF ORP (mV) -21.8 -22.5 -23.2 -23.7 -22.8 TYPE (Circle ap (BTEX) (BTEX) (HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl	(ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 7 2	Temp           (°F/°C)           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.7           22.6           (8260)           (8010)           (8270D)           (PA)           (COD)           (COD)	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 729.5 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4	sheen, etc.):	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.29           0.28           0.28           0.28           0.10           WTPH-Gx)           H-Dx)           (TPH)           OD)           (Turbid)           lahl Nitrogen	VELLOW CLEAN ORP (mV) -21.8 -22.5 -23.2 -23.7 -22.8 TYPE (Circle ap (BTEX) (8081)	Turbidity (NTU) #DIV/0! plicable or write n (8141) (Oil & Gro (HCO3/CO3) (Cl	(ft)	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 7 2	Temp           (°F/°C)           22.6           22.6           22.6           22.6           22.7           22.6           (8260)           (8010)           (8270D)           (PA)           (COD)           (Total Cyanid)	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 729.5 NALYSIS AL 0) (8020) (N kH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cyst	sheen, etc.):	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.29           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.10	VELLOW CLEAN ORP (mV) -21.8 -22.5 -23.2 -23.7 -22.8 TYPE (Circle ap (BTEX) (-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N	X NO/NS Turbidity (NTU) #DIV/0! plicable or write m (8141) (Oil & Gru (HCO3/CO3) (Cillon)	(ft)	(Fe II)	Observations OBSERVATIONS OR
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 7 2	Temp           (°F/°C)           22.6           22.6           22.6           22.6           22.7           22.6           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 729.5 NALYSIS AL 0) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (E	sheen, etc.):	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           0.28           MTPH-GX)           H-Dx)         (TPH           DD)         (Turbid           lahl Nitrogen           Cyanide)         (Cd)	VELLOW CLEAN (mV) -21.8 -22.5 -23.2 -23.7 -23.7 -22.8 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	R NO/NS           Turbidity (NTU)           #DIV/0!           plicable or write n (8141) (Oil & Gri (HCO3/CO3) (CI NO2)           2b) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 7 2	Temp           (°F/°C)           22.6           22.6           22.6           22.6           22.7           22.6           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanid)           (Total Metals)	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 (XBO20) (N (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya (As) (Sb) (R etals) (As) (Sb)	sheen, etc.):	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           0.28           MTPH-GX)           H-Dx)         (TPH           DD)         (Turbid           lahl Nitrogen           Cyanide)         (Cd)	VELLOW CLEAN (mV) -21.8 -22.5 -23.2 -23.7 -23.7 -22.8 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	R NO/NS           Turbidity (NTU)           #DIV/0!           plicable or write n (8141) (Oil & Gri (HCO3/CO3) (CI NO2)           2b) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations OBSERVATIONS OR
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 7 2	Temp (°F/°C)           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.7           22.6           (%P)(CAL A)           (%B260)           (%B10)           (%B270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Dissolved Me           VOC (Boein)	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 (XBO20) (N (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya (As) (Sb) (R etals) (As) (Sb)	sheen, etc.):	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           0.28           MTPH-GX)           H-Dx)         (TPH           DD)         (Turbid           lahl Nitrogen           Cyanide)         (Cd)	VELLOW CLEAN (mV) -21.8 -22.5 -23.2 -23.7 -23.7 -22.8 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	R NO/NS           Turbidity (NTU)           #DIV/0!           plicable or write n (8141) (Oil & Gri (HCO3/CO3) (CI NO2)           2b) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 7 2	Temp (°F/°C)           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.7           22.6           (%P)(CAL A)           (%B260)           (%B10)           (%B270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Dissolved Me           VOC (Boein)	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 729.5 NALYSIS AL 0) (8020) (N KH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	sheen, etc.):	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           0.28           MTPH-GX)           H-Dx)         (TPH           DD)         (Turbid           lahl Nitrogen           Cyanide)         (Cd)	VELLOW CLEAN (mV) -21.8 -22.5 -23.2 -23.7 -23.7 -22.8 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	R NO/NS           Turbidity (NTU)           #DIV/0!           plicable or write n (8141) (Oil & Gri (HCO3/CO3) (CI NO2)           2b) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Sample Descri Replicate 1 2 3 4 Average: QUANTITY 7 2	Temp (°F/°C)           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.7           22.6           (%P)(CAL A)           (%B260)           (%B10)           (%B270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Dissolved Me           VOC (Boein)	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 729.5 NALYSIS AL 0) (8020) (N KH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	sheen, etc.):	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           0.28           MTPH-GX)           H-Dx)         (TPH           DD)         (Turbid           lahl Nitrogen           Cyanide)         (Cd)	VELLOW CLEAN (mV) -21.8 -22.5 -23.2 -23.7 -23.7 -22.8 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	R NO/NS           Turbidity (NTU)           #DIV/0!           plicable or write n (8141) (Oil & Gri (HCO3/CO3) (CI NO2)           2b) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Sample Descri Replicate  1  2  3  4  Average:  QUANTITY  7  2	Temp (°F/°C)           22.6           22.6           22.6           22.6           22.6           22.6           22.6           22.7           22.6           (%P)(CAL A)           (%B260)           (%B10)           (%B270D)           (PH)           (Condu           (COD)           (Total Cyanid)           (Dissolved Me           VOC (Boein)	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 729.5 NALYSIS AL 0) (8020) (N KH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	sheen, etc.):	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           0.28           MTPH-GX)           H-Dx)         (TPH           DD)         (Turbid           lahl Nitrogen           Cyanide)         (Cd)	VELLOW CLEAN (mV) -21.8 -22.5 -23.2 -23.7 -23.7 -22.8 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	R NO/NS           Turbidity (NTU)           #DIV/0!           plicable or write n (8141) (Oil & Gri (HCO3/CO3) (CI NO2)           2b) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Sample Descri Replicate  1 2 3 4 Average:  QUANTITY 7 2	Temp (°F/°C) 22.6 22.6 22.6 22.7 22.6 22.7 22.6 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth VOC (Boein Methane Eth	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 729.5 NALYSIS AL 0) (8020) (N KH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	sheen, etc.):	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           0.28           MTPH-GX)           H-Dx)         (TPH           DD)         (Turbid           lahl Nitrogen           Cyanide)         (Cd)	VELLOW CLEAN (mV) -21.8 -22.5 -23.2 -23.7 -23.7 -22.8 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	R NO/NS           Turbidity (NTU)           #DIV/0!           plicable or write n (8141) (Oil & Gri (HCO3/CO3) (CI NO2)           2b) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Sample Descri Replicate  1 2 3 4 Average:  QUANTITY 7 2	Temp (°F/°C) 22.6 22.6 22.6 22.7 22.6 22.7 22.6 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth VOC (Boein Methane Eth	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 729.5 NALYSIS AL 0) (8020) (N KH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	sheen, etc.):	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           0.28           MTPH-GX)           H-Dx)         (TPH           DD)         (Turbid           lahl Nitrogen           Cyanide)         (Cd)	VELLOW CLEAN (mV) -21.8 -22.5 -23.2 -23.7 -23.7 -22.8 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	R NO/NS           Turbidity (NTU)           #DIV/0!           plicable or write n (8141) (Oil & Gri (HCO3/CO3) (CI NO2)           2b) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations
Sample Descri Replicate  1 2 3 4 Average:  QUANTITY 7 2   Duplicate Sam Comments:	Temp (°F/°C) 22.6 22.6 22.6 22.7 22.6 22.7 22.6 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth VOC (Boein Methane Eth	Cond. (uS/cm) 729.0 729.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 730.0 729.5 NALYSIS AL 0) (8020) (N KH) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya c) (As) (Sb) (H etals) (As) (Sb)	sheen, etc.):	SLIGHTLY           pH           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           6.28           0.28           MTPH-GX)           H-Dx)         (TPH           DD)         (Turbid           lahl Nitrogen           Cyanide)         (Cd)	VELLOW CLEAN (mV) -21.8 -22.5 -23.2 -23.7 -23.7 -22.8 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/N (Cr) (Cu) (Fe) (F	R NO/NS           Turbidity (NTU)           #DIV/0!           plicable or write n (8141) (Oil & Gri (HCO3/CO3) (CI NO2)           2b) (Mg) (Mn) (N	(ft) 	(Fe II)	Observations



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@ 1	226		
Sample Num	ber:	RGW177I-			Weather:	60'S, PARTLY S			
Landau Repr		JHA			-				
WATER LEV	EL/WELL/P	URGE DATA							
Well Condition		Secure (YES		Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	8.34	Time:	1200	Flow through cel	l vol.		GW Meter No.(	s SLOPE 2
Begin Purge:	Date/Time:	8/ 13 /2018	@ 1204	End Purge:	Date/Time:	8/ 13 /2018 @ 12	.25	Gallons Purged:	0.5
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	Purge Goa	ls: Stablizatio	on of Parame		e consecutive rea	dings within the fo	llowing limits	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1207	17.45	692	0.66	6.16	-64.5	LOW	8.29	<0.25	LEVEL RISING?
1210	17.28	677	0.43	6.18	-75.0		8.21		
1213	16.43	656	0.24	6.21	-82.2			0.25	
1216	16.29	654	0.21	6.23	-84.3				
1219	16.21	652	0.18	6.24	-86.9				
1217	16.13		0.17	6.32		. <u></u>	8.18	0.5	
							0.10	0.5	
1224	16.13	649	0.16	6.34	-91.6				
SAMPLE CO									
Sample Collec			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure 🗖	Alconox Was	_	Tap Rinse	DI Water	Dedicated			
(By Numerica		Other		Tup Tunot		Douloutou			
			, sheen, etc.):	CLEAR WI	TH MINOR PAR	FICULATES, COL	ORLESS, NO/N	S	
1	1								
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	16.15	649	0.15	6.34	-92.0				
2	16.16	648	0.16	6.35	-92.2				
3	16.18	648	0.15	6.35	-92.4				
4	16.16	648	0.15	6.35	-92.6				
Average:	16.16	648	0.15	6.35	-92.3	#DIV/0!			
r									
QUANTITY 7		$\frac{(NALYSISAI)}{(N)} (8020) (N)$				plicable or write n	ion-standard af	WA 🗆	OR 🗆
2						(8141) (Oil & Gr	rease)	WA 🗆	OR 🗆
						(HCO3/CO3) (C			
					n) (NH3) (NO3/				
		le) (WAD Cy							
	(Total Metals	) (As) (Sb) (	Ba) (Be) (Ca	u) (Cd) (Co)	(Cr) (Cu) (Fe)	Pb) (Mg) (Mn) (N	Ni) (Ag) (Se) (	Tl) (V) $\overline{(Zn)}$ (H)	g) (K) (Na)
			o) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (Pl	o) (Mg) (Mn) (Ni) (A	Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (I)	Na) (Hardness) (Silica
	VOC (Boein								
	Methane Eth	nane Ethene Ac	cetylene						
	others								
	outers								
Duplicate San	nple No(s):								

Duplicate Sample No(

Comments: Signature:

P:\8888 - Boeing Renton\02 Data Management\2018\3Q2018\field data\Landau Files\AOC-90\_8.13.18\_JHA.xlsx



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@ 12	256		
Sample Nurr	nber:	RGW178S-	180813		Weather:	60'S, PARTLY S	UNNY		
Landau Repr	resentative:	JHA							
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES)	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	8.57	Time:	1217	Flow through ce	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:	Date/Time:	8/ 13 /2018	@ 1231	End Purge:	Date/Time:	8/ 13 /2018 @ 12	52	Gallons Purged:	0.5
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATME	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°Č)	(uS/cm)	(mg/L)	- -	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goa +/- 3%	is: Stabilzatio +/- 3%		+/- 0.1 units	+/- 10 mV	dings within the fol +/- 10%	< 0.3  ft	>/= 1 flow through cell	
1234		465	0.15	5.96		LOW		<0.25	
1237	15.83	471	0.11	6.00	-41.2		8.61		
1237	15.87	458	0.10	6.03				0.25	
1243	16.07	446	0.11	6.09	-67.0		8.61		
1246	16.23	439	0.10	6.17	-71.6				
1249	16.28	438	0.11	6.18	-74.5			0.5	
	LLECTION E		D 11						
Sample Collec Made of:		لیا Stainless Stee	Bailer	PVC	Fump/Fump Type	DED BLADDER	Other	Dedicated	
Decon Proced		Alconox Was	_	Tap Rinse	DI Water	<ul><li>Polyethylene</li><li>Dedicated</li></ul>		Dedicated	
(By Numerica		Other		Tap Kinse		Dedicated			
	,		sheen etc.).	CLEAR CO	LORLESS, NO/N	JS			
	-F				,,				
Replicate									
	Temp	Cond.	D.O.	pH	ORP (mV)	Turbidity	DTW (ft)	Ferrous iron	Comments/
1	(° <b>F</b> /°Ĉ)	(uS/cm)	(mg/L)	•	( <b>mV</b> )	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	(° <b>F</b> /°Ĉ) 16.33	( <b>uS/cm</b> ) 437	( <b>mg/L</b> ) 0.10	6.18	(mV) -75.2				
1 2	(° <b>F</b> /°Ĉ)	(uS/cm) 437 438	(mg/L) 0.10 0.10	6.18 6.18	(mV) -75.2 -75.5				
	(° <b>F</b> /°Ĉ) 16.33	( <b>uS/cm</b> ) 437	( <b>mg/L</b> ) 0.10	6.18	(mV) -75.2				
2	(° <b>F/°Ĉ</b> ) <u>16.33</u> <u>16.33</u>	(uS/cm) 437 438	(mg/L) 0.10 0.10	6.18 6.18	(mV) -75.2 -75.5				
2 3	(° <b>F</b> /° <b>Ĉ</b> ) <u>16.33</u> <u>16.34</u>	(uS/cm) 437 438 437	( <b>mg/L</b> ) 0.10 0.10 0.11	6.18 6.18 6.18	(mV) -75.2 -75.5 -75.9				
2 3 4 Average:	(°F/°Ĉ) <u>16.33</u> <u>16.33</u> <u>16.34</u> <u>16.34</u> <u>16.34</u>	(uS/cm) 437 438 437 437 437 437	(mg/L) 0.10 0.11 0.11 0.11	6.18 6.18 6.18 6.19 6.18	(mV) -75.2 -75.5 -75.9 -76.2 -75.7	(NTU)	(ft)	(Fe II)	
2 3 4 Average:	(°F/°Ĉ) <u>16.33</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17</u>	(uS/cm) 437 438 437 437 437 NALYSIS AI 0) (8020) (N	(mg/L) 0.10 0.11 0.11 0.11 LOWED PE WTPH-G) (	6.18 6.18 6.18 6.19 6.19 6.18 <b>R BOTTLE</b> NWTPH-GX)	(mV) 75.2 75.5 75.9 76.2 75.7 TYPE (Circle ap (BTEX)	(NTU) #DIV/0!	(ft)	(Fe II)	
2 3 4 Average:	(°F/°Ĉ) <u>16.33</u> <u>16.33</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>16.35</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17</u>	(uS/cm) 437 438 437 437 437 437 NALYSIS AI 0) (8020) (N NH) (NWTPH	(mg/L) 0.10 0.11 0.11 0.11 LOWED PE WTPH-G) ( H-D) (NWTP	6.18 6.18 6.19 6.19 6.18 <b>R BOTTLE</b> NWTPH-GX) H-DX) (TPH	(mV) -75.2 -75.5 -75.9 -76.2 -75.7 TYPE (Circle aj (BTEX) I-HCID) (8081)	(NTU) #DIV/0! pplicable or write n (8141) (Oil & Gro	(ft) on-standard ar ease)	(Fe II)	Observations
2 3 4 Average: QUANTITY 7	(°F/°Ĉ) <u>16.33</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>(8260)</u> (8010) (8270D) (PA (8270D) (PA	(uS/cm) 437 438 437 437 437 437 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS	(mg/L) 0.10 0.11 0.11 0.11 0.11 LOWED PE WTPH-G) ( WTPH-G) ( H-D) (NWTP S) (TSS) (B	6.18 6.18 6.19 6.19 6.18 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbio	(mV) -75.2 -75.5 -75.9 -76.2 -76.2 -75.7 TYPE (Circle aj (BTEX) H-HCID) (8081) lity) (Alkalinity)	(NTU) #DIV/0! pplicable or write n (8141) (Oil & Gro (HCO3/CO3) (C	(ft) on-standard ar ease)	(Fe II)	Observations
2 3 4 Average: QUANTITY 7	(°F/°Ĉ) <u>16.33</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.34</u> <u>16.35</u> <u>16.35</u> <u>16.55</u> <u>16.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17.55</u> <u>17</u>	(uS/cm) 437 438 437 437 437 437 NALYSIS AI 0) (8020) (N H) (NWTPH ictivity) (TDS C) (Total PO4	(mg/L) 0.10 0.11 0.11 0.11 0.11 LLOWED PE WTPH-G) (1 H-D) (NWTP S) (TSS) (B 4) (Total Kie	6.18 6.18 6.19 6.19 6.18 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbio dahl Nitrogen	(mV) -75.2 -75.5 -75.9 -76.2 -75.7 TYPE (Circle aj (BTEX) I-HCID) (8081)	(NTU) #DIV/0! pplicable or write n (8141) (Oil & Gro (HCO3/CO3) (C	(ft) on-standard ar ease)	(Fe II)	Observations
2 3 4 Average: QUANTITY 7	(°F/°Ĉ) 16.33 16.33 16.34 16.34 16.34 16.34 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (9H) (Condu (COD) (TOO (Total Cyanid	(uS/cm) 437 438 437 437 437 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cy	(mg/L) 0.10 0.11 0.11 0.11 0.11 LOWED PE WTPH-G) (I-D) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free	6.18 6.18 6.19 6.19 6.18 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH-OX) (Turbid dahl Nitrogen Cyanide)	(mV) -75.2 -75.5 -75.9 -76.2 -76.2 -75.7 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	(NTU) #DIV/0! pplicable or write n (8141) (Oil & Gro (HCO3/CO3) (C /NO2)	(ft) on-standard ar ease) l) (SO4) (NO	(Fe II)	Observations OR  OR OR OR OR
2 3 4 Average: QUANTITY 7	(°F/°Ĉ) 16.33 16.33 16.34 16.34 16.34 16.34 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (8270D) (PA (PH) (Condu (COD) (TOO (Total Cyanid)	(uS/cm) 437 438 437 437 437 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cy (MAD Cy)	(mg/L) 0.10 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	6.18 6.18 6.19 6.18 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) (TPF OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	(mV) -75.2 -75.5 -75.9 -76.2 -76.2 -75.7 TYPE (Circle ag (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU) #DIV/0! pplicable or write n (8141) (Oil & Gro (HCO3/CO3) (C 'NO2) (Pb) (Mg) (Mn) (N	(ft) on-standard ar ease) 1) (SO4) (NO [i) (Ag) (Se) ('	(Fe II) malysis below) WA □ WA □ 3) (NO2) (F) F1) (V) (Zn) (Hg)	Observations
2 3 4 Average: QUANTITY 7	(°F/°Ĉ) 16.33 16.33 16.34 16.34 16.34 16.34 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (8270D) (PA (PH) (Condu (COD) (TOO (Total Cyanid)	(uS/cm) 437 438 437 437 437 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cy e) (WAD Cy b) (As) (Sb) (D etals) (As) (Sb)	(mg/L) 0.10 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	6.18 6.18 6.19 6.18 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) (TPF OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	(mV) -75.2 -75.5 -75.9 -76.2 -76.2 -75.7 TYPE (Circle ag (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU) #DIV/0! pplicable or write n (8141) (Oil & Gro (HCO3/CO3) (C /NO2)	(ft) on-standard ar ease) 1) (SO4) (NO [i) (Ag) (Se) ('	(Fe II) malysis below) WA □ WA □ 3) (NO2) (F) F1) (V) (Zn) (Hg)	Observations
2 3 4 Average: QUANTITY 7	(°F/°Ĉ) 16.33 16.33 16.34 16.34 16.34 16.34 16.34 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (9H) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Metals) VOC (Boein	(uS/cm) 437 438 437 437 437 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cy e) (WAD Cy b) (As) (Sb) (D etals) (As) (Sb)	(mg/L) 0.10 0.11 0.11 0.11 0.11 LLOWED PE WTPH-G) (I WTPH-G) (I I-D) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.18 6.18 6.19 6.18 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) (TPF OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	(mV) -75.2 -75.5 -75.9 -76.2 -76.2 -75.7 TYPE (Circle ag (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU) #DIV/0! pplicable or write n (8141) (Oil & Gro (HCO3/CO3) (C 'NO2) (Pb) (Mg) (Mn) (N	(ft) on-standard ar ease) 1) (SO4) (NO [i) (Ag) (Se) ('	(Fe II) malysis below) WA □ WA □ 3) (NO2) (F) F1) (V) (Zn) (Hg)	Observations
2 3 4 Average: QUANTITY 7	(°F/°Ĉ) 16.33 16.33 16.34 16.34 16.34 16.34 16.34 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (9H) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Metals) VOC (Boein	(uS/cm) 437 438 437 437 437 437 NALYSIS AI 0) (8020) (N AH) (NWTPH ictivity) (TDS C) (Total PO- e) (WAD Cy b) (As) (Sb) (d etals) (As) (Sb) g short list)	(mg/L) 0.10 0.11 0.11 0.11 0.11 LLOWED PE WTPH-G) (I WTPH-G) (I I-D) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.18 6.18 6.19 6.18 6.19 6.18 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) (TPF OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	(mV) -75.2 -75.5 -75.9 -76.2 -76.2 -75.7 TYPE (Circle ag (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU) #DIV/0! pplicable or write n (8141) (Oil & Gro (HCO3/CO3) (C 'NO2) (Pb) (Mg) (Mn) (N	(ft) on-standard ar ease) 1) (SO4) (NO [i) (Ag) (Se) ('	(Fe II) malysis below) WA □ WA □ 3) (NO2) (F) F1) (V) (Zn) (Hg)	Observations
2 3 4 Average: QUANTITY 7	(°F/°C) 16.33 16.33 16.34 16.34 16.34 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (PH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Methane Eth	(uS/cm) 437 438 437 437 437 437 NALYSIS AI 0) (8020) (N AH) (NWTPH ictivity) (TDS C) (Total PO- e) (WAD Cy b) (As) (Sb) (d etals) (As) (Sb) g short list)	(mg/L) 0.10 0.11 0.11 0.11 0.11 LLOWED PE WTPH-G) (I WTPH-G) (I I-D) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.18 6.18 6.19 6.18 6.19 6.18 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) (TPF OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	(mV) -75.2 -75.5 -75.9 -76.2 -76.2 -75.7 TYPE (Circle ag (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU) #DIV/0! pplicable or write n (8141) (Oil & Gro (HCO3/CO3) (C 'NO2) (Pb) (Mg) (Mn) (N	(ft) on-standard ar ease) 1) (SO4) (NO [i) (Ag) (Se) ('	(Fe II) malysis below) WA □ WA □ 3) (NO2) (F) F1) (V) (Zn) (Hg)	Observations
2 3 4 Average: QUANTITY 7	(°F/°Ĉ) 16.33 16.33 16.34 16.34 16.34 16.34 16.34 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (9H) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Metals) VOC (Boein	(uS/cm) 437 438 437 437 437 437 NALYSIS AI 0) (8020) (N AH) (NWTPH ictivity) (TDS C) (Total PO- e) (WAD Cy b) (As) (Sb) (d etals) (As) (Sb) g short list)	(mg/L) 0.10 0.11 0.11 0.11 0.11 LLOWED PE WTPH-G) (I WTPH-G) (I I-D) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.18 6.18 6.19 6.18 6.19 6.18 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) (TPF OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	(mV) -75.2 -75.5 -75.9 -76.2 -76.2 -75.7 TYPE (Circle ag (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU) #DIV/0! pplicable or write n (8141) (Oil & Gro (HCO3/CO3) (C 'NO2) (Pb) (Mg) (Mn) (N	(ft) on-standard ar ease) 1) (SO4) (NO [i) (Ag) (Se) ('	(Fe II) malysis below) WA □ WA □ 3) (NO2) (F) F1) (V) (Zn) (Hg)	Observations
2 3 4 Average: QUANTITY 7	(°F/°Ĉ) 16.33 16.33 16.34 16.34 16.34 16.34 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA (8270D) (PA (9H) (Condu (COD) (TOO (Total Cyanid) (Total Metals) (Dissolved Methane Eth others	(uS/cm) 437 438 437 437 437 437 NALYSIS AI 0) (8020) (N AH) (NWTPH ictivity) (TDS C) (Total PO- e) (WAD Cy b) (As) (Sb) (d etals) (As) (Sb) g short list)	(mg/L) 0.10 0.11 0.11 0.11 0.11 LLOWED PE WTPH-G) (I WTPH-G) (I I-D) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.18 6.18 6.19 6.18 6.19 6.18 <b>R BOTTLE</b> <b>NWTPH-GX</b> ) (TPF OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	(mV) -75.2 -75.5 -75.9 -76.2 -76.2 -75.7 TYPE (Circle ag (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU) #DIV/0! pplicable or write n (8141) (Oil & Gro (HCO3/CO3) (C 'NO2) (Pb) (Mg) (Mn) (N	(ft) on-standard ar ease) 1) (SO4) (NO [i) (Ag) (Se) ('	(Fe II) malysis below) WA □ WA □ 3) (NO2) (F) F1) (V) (Zn) (Hg)	Observations

Signature:



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@ 1	131		
Sample Nun	nber:	RGW179I-	-		Weather:	60'S, PARTLY S	UNNY		
Landau Rep	resentative:	JHA							
WATER LEV	EL/WELL/P	<b>URGE DATA</b>							
Well Condition	on:	Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	6.46	Time:	1104	Flow through ce	l vol.		GW Meter No.(	SSLOPE 2
Begin Purge:	Date/Time:	8/ 13 /2018	@ 1109	End Purge:	Date/Time:	8/ 13 /2018 @ 11	30	Gallons Purged:	0.5
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
			on of Parame			dings within the fol	llowing limits	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
1112	19.29	450	0.39	5.85	-32.1	LOW	6.46	<0.25	
1115	19.59	465	0.32	5.88	-45.4				
1118	19.81	489	0.27	6.00	-63.2		6.46	0.25	
1121	19.86	497	0.26	6.03	-67.5				
1124	20.00	514	0.25	6.10	-79.3				
1127	20.03	527	0.25	6.12	-83.9			0.5	
1129	19.98	530	0.25	6.12	-85.6				
SAMPLE CO	LLECTION I	DATA							
Sample Colle			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
Sample Descr	iption (color,	urbidity, odor,	sheen, etc.):	CLEART, C	OLORLESS, NO	/NS			
Replicate	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	(°F/°C)	(uS/cm)	(mg/L)	рп	(mV)	(NTU)	(ft)	(Fe II)	Observations
1	19.93	532	0.25	6.12	-86.0				
2	19.91	532	0.24	6.12	-86.3				
3	19.91	532	0.24	6.12	-86.6				
4	19.91	533	0.24	6.12	-86.9				
Average:	19.92	532	0.24	6.12	-86.5	#DIV/0!			
		<u>NALYSIS AI</u> )) (8020) (N				oplicable or write n	on-standard a	_	
7						(8141) (Oil & Gr	ease)	WA 🗆	OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
						(HCO3/CO3) (C			
					i) (NH3) (NO3/				
	(Total Cyanic	le) (WAD Cy	anide) (Free	Cyanide)					
						(Pb) (Mg) (Mn) (N			
			) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (Pe)	b) (Mg) (Mn) (Ni) (A	Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (N)	Na) (Hardness) (Silica
	VOC (Boein		atulara						
	wietnane Eth	ane Ethene Ac	etytene						
	others								
	1								
<b>Dunlicate San</b>	nple No(s):								

Comments: Signature:

JHA

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Project Nam	e:	Boeing Rent	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@	1041		
Sample Num	nber:	RGW180S-	180813		Weather:	60'S, PARTLY	SUNNY		
Landau Repr	resentative:	JHA			_				
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition	on:	Secure (YES)	1	Damaged (N	O)	Describe:	:		
DTW Before	Purging (ft)	6.51	Time:	1015	Flow through cel	l vol.		GW Meter No.(s	SLOPE 2
		8/ 13 /2018	@ 1019	End Purge:	-	8/ 13 /2018 @ 1	.040	Gallons Purged:	0.5
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Тетр	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(° <b>F</b> /° <b>C</b> )	(uS/cm)	(mg/L)	-	(mV)	(NTU)	( <b>ft</b> )	Volume (gal)	Observations
	Purge Goa +/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units	e consecutive read +/- 10 mV	lings within the f +/- 10%	ollowing limits < 0.3 ft	>/= 1 flow through cell	
1022								0	
1022	20.79	312	0.17	6.05		LOW		<0.25	
1025	20.36	318	0.20	5.91	6.3		8.51		
1028	20.65	325	0.31	5.94	-6.3				
1031	20.89	328	0.23	6.05	-20.7		8.51		
1034	20.94	328	0.21	6.09	-25.3			0.25	
1037	21.01	328	0.21	6.14	-31.4				
1039	21.13	329	0.22	6.19	-39.1				
		· ·							
SAMPLE CO	LLECTION E	DATA							
Sample Colle			Bailer		Pump/Pump Type	DED BLADDER	ર		
Made of:		Stainless Stee	i 🗖	PVC	Teflon	Polyethylene	e 🚺 Other	Dedicated	
Decon Proced	lure:	Alconox Was	h 🗖	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other					_		
Sample Descr	ription (color, t	urbidity, odor,	sheen, etc.):	CLOUDY, L	LIGHT GRAY, NO	D/NS			
Replicate	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	(°F/°C)	(uS/cm)	(mg/L)	pm	(mV)	(NTU)	(ft)	(Fe II)	Observations
1	21.14	329	0.22	6.19	-39.3				
2	21.16	329	0.21	6.19	-40.1				
3	21.16	329	0.21	6.19	-40.4				
4	21.18	330		6.19	-41.2				
			0.21						
Average:	21.16	329	0.21	6.19	-40.3	#DIV/0!			
						plicable or write	non-standard a		
7		0) (8020) (N						WA 🗆	OR 🗌
2						(8141) (Oil & C		$WA \square$	OR 🗆
					nty) (Alkalinity) i) (NH3) (NO3/	(HCO3/CO3) ( NO2)	<u>CI) (SO4) (NO</u>	3) (NO2) (F)	
		le) (WAD Cya			(1113) (1103/	1(02)			
					(Cr) (Cu) (Fe) (	Pb) (Mg) (Mn) (	(Ni) (Ag) (Se) (	Tl) (V) (Zn) (Hg	g) (K) (Na)
									Na) (Hardness) (Silica
	VOC (Boein								
	Methane Eth	ane Ethene Ac	etylene						
1									
	others								
	others								
Duplicate San		Duplicate Loo	cation (DUP5	)					
		Duplicate Loc	cation (DUP5	)					



Project Nam	ne:	Boeing Rent	ton		Project Number	r:	0025217.099.0	99	
Event:		Quarterly Au	ugust 2018		Date/Time:	8/ 13 /2018@ 1	000		
Sample Nur	nber:	RGW180S-	180813		Weather:	60'S, PARTLY S	SUNNY		
Landau Rep	resentative:	JHA			-				
WATER LEV	VEL/WELL/PI	IRGE DATA							
Well Condition		Secure (YES)	)	Damaged (N	O)	Describe:			
DTW Before		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						GW Meter No.(s	SLOPE 2
		8/ 13 /2018		End Purge:		8/ 13 /2018 @		Gallons Purged:	
Purge water d			55-gal Drum	Ĕ	Storage Tank	Ground	Other	SITE TREATM	
i aige water e	-		-		-				
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	· /	· /		ters for three	· /	lings within the fo	· · /	>/= 1 flow	Obser various
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
		р	1•		DOW	000			
		Di	iplica	ate to	RGW1	805			
			•						
		·							
SAMPLE CO	DLLECTION I	DATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	1	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	lure:	Alconox Was	h 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other							
Sample Descu									
r 2000	ription (color, 1	turbidity, odor,	sheen, etc.):	CLOUDY, I	LIGHT GRAY, NO	D/NS			
		-					DTU/	Formous iron	Commonts
Replicate	Temp	Cond.	D.O.	CLOUDY, I	ORP	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)		DTW (ft)	Ferrous iron (Fe II)	
Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 21.14	Cond. (uS/cm) 329	<b>D.O.</b> (mg/L) 0.21	<b>рН</b> 6.19	ORP (mV) -39.7	Turbidity			
Replicate	Temp (°F/°C)           21.14           21.17	Cond. (uS/cm) 329 329	<b>D.O.</b> (mg/L) 0.21 0.21	<b>рН</b> 6.19 6.19	ORP (mV) -39.7 -40.7	Turbidity			
Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 21.14	Cond. (uS/cm) 329 329 330	D.O. (mg/L) 0.21 0.21 0.21	<b>pH</b> 6.19 6.19 6.19	ORP (mV) -39.7 -40.7 -41.0	Turbidity			
Replicate	Temp (°F/°C)           21.14           21.17	Cond. (uS/cm) 329 329	<b>D.O.</b> (mg/L) 0.21 0.21	<b>рН</b> 6.19 6.19	ORP (mV) -39.7 -40.7	Turbidity			
Replicate	Temp (°F/°C)           21.14           21.17           21.17	Cond. (uS/cm) 329 329 330	D.O. (mg/L) 0.21 0.21 0.21	<b>pH</b> 6.19 6.19 6.19	ORP (mV) -39.7 -40.7 -41.0	Turbidity			
Replicate 1 2 3 4 Average:	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.17	Cond. (uS/cm) 329 329 330 330 330 330	D.O. (mg/L) 0.21 0.21 0.21 0.22 0.21	<b>pH</b> 6.19 6.19 6.19 6.19 6.19	ORP (mV) -39.7 -40.7 -41.0 -41.5 -40.7	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.16           TYPICAL A	Cond. (uS/cm) 329 329 330 330 330 330	D.O. (mg/L) 0.21 0.21 0.21 0.22 0.21 LOWED PE	pH 6.19 6.19 6.19 6.19 6.19 6.19	ORP (mV) -39.7 -40.7 -40.7 -41.5 -41.5 -40.7 TYPE (Circle ap	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260)           (8010)	Cond. (uS/cm) 329 329 330 330 330 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.21 0.21 0.21 0.22 0.21 LOWED PE WTPH-G) (	pH 6.19 6.19 6.19 6.19 6.19 6.19 ER BOTTLE NWTPH-Gx)	ORP (mV) -39.7 -40.7 -40.7 -41.5 -41.5 -40.7 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 7	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260)           (8270D)	Cond. (uS/cm) 329 329 330 330 330 330 NALYSIS AL 0) (8020) (N AH) (NWTPH	D.O. (mg/L) 0.21 0.21 0.21 0.22 0.21 LOWED PH WTPH-G) ( I-D) (NWTH	pH 6.19 6.19 6.19 6.19 6.19 6.19 6.19 7.19 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10	ORP (mV) -39.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap (BTEX) H-HCID) (8081)	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 7	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (Conduction)	Cond. (uS/cm) 329 329 330 330 330 330 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS	D.O. (mg/L) 0.21 0.21 0.22 0.21 LOWED PE WTPH-G) ( NWTF (-D) (NWTF	pH 6.19 6.19 6.19 6.19 6.19 6.19 6.19 7.10 6.19 7.10 6.19 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10	ORP (mV) -39.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap (BTEX) H-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 7	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260) (8010)           (8270D) (P/2)           (pH) (Condu           (COD) (TOO)           (Total Cyanic)	Cond. (uS/cm) 329 329 330 330 330 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cya	D.O. (mg/L) 0.21 0.21 0.22 0.21 LOWED PH WTPH-G) ( I-D) (NWTH D) (TSS) (B D) (Total Kie anide) (Free	pH 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (Turbio dahl Nitroger Cyanide)	ORP (mV) -39.7 -40.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)	(ft) non-standard an rease) Cl) (SO4) (NO	(Fe II)	Observations OB Control Contro
Replicate 1 2 3 4 Average: QUANTITY 7	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260) (8010           (8270D) (P4           (PH) (Condu           (COD) (TOO           (Total Cyanic           (Total Metals)	Cond. (uS/cm) 329 329 330 330 330 NALYSIS AL D) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cya ) (As) (Sb) (I	D.O. (mg/L) 0.21 0.21 0.22 0.21 LOWED PE WTPH-G) ( I-D) (NWTF D) (TSS) (B D) (Total Kie anide) (Free Ba) (Be) (Ca	pH 6.19 6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (Turbia dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -39.7 -40.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap 0 (BTEX) H-HCID) (8081) dity) (Alkalinity) b) (NH3) (NO3/ (Cr) (Cu) (Fe) (	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) non-standard an rease) Cl) (SO4) (NO Ni) (Ag) (Se) ('	(Fe II)	Observations OB Contemporation OR Contemporation OR Contemporation () (K) (Na)
Replicate 1 2 3 4 Average: QUANTITY 7	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260)           (8010)           (8270D)           (PH)           (COD)           (Total Cyanical           (Total Metalss)           (Dissolved M	Cond. (uS/cm) 329 329 330 330 330 330 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.21 0.21 0.22 0.21 LOWED PE WTPH-G) ( I-D) (NWTF D) (TSS) (B D) (Total Kie anide) (Free Ba) (Be) (Ca	pH 6.19 6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (Turbia dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -39.7 -40.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap 0 (BTEX) H-HCID) (8081) dity) (Alkalinity) b) (NH3) (NO3/ (Cr) (Cu) (Fe) (	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) non-standard an rease) Cl) (SO4) (NO Ni) (Ag) (Se) ('	(Fe II)	Observations OB Control Contro
Replicate 1 2 3 4 Average: QUANTITY 7	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260) (8010           (8260) (8010           (8260) (8010           (8270D) (P4           (DH) (Condu           (COD) (TOO           (Total Cyanic           (Total Metals           (Dissolved M           VOC (Boein	Cond. (uS/cm) 329 329 330 330 330 330 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cya 1) (As) (Sb) (H etals) (As) (Sb) g short list)	D.O. (mg/L) 0.21 0.21 0.22 0.21 LOWED PE WTPH-G) ( I-D) (NWTF D) (TSS) (B D) (Total Kie anide) (Free Ba) (Be) (Ca D) (Ba) (Be) (Ca	pH 6.19 6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (Turbia dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -39.7 -40.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap 0 (BTEX) H-HCID) (8081) dity) (Alkalinity) b) (NH3) (NO3/ (Cr) (Cu) (Fe) (	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) non-standard an rease) Cl) (SO4) (NO Ni) (Ag) (Se) ('	(Fe II)	Observations OB Contemporation OR Contemporation OR Contemporation () (K) (Na)
Replicate 1 2 3 4 Average: QUANTITY 7	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260) (8010           (8260) (8010           (8260) (8010           (8270D) (P4           (DH) (Condu           (COD) (TOO           (Total Cyanic           (Total Metals           (Dissolved M           VOC (Boein	Cond. (uS/cm) 329 329 330 330 330 330 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 0.21 0.21 0.22 0.21 LOWED PE WTPH-G) ( I-D) (NWTF D) (TSS) (B D) (Total Kie anide) (Free Ba) (Be) (Ca D) (Ba) (Be) (Ca	pH 6.19 6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (Turbia dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -39.7 -40.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap 0 (BTEX) H-HCID) (8081) dity) (Alkalinity) b) (NH3) (NO3/ (Cr) (Cu) (Fe) (	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) non-standard an rease) Cl) (SO4) (NO Ni) (Ag) (Se) ('	(Fe II)	Observations OB Contemporation OR Contemporation OR Contemporation () (K) (Na)
Replicate 1 2 3 4 Average: QUANTITY 7	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260) (8010           (8260) (8010           (8260) (8010           (8270D) (P4           (DH) (Condu           (COD) (TOO           (Total Cyanic           (Total Metals           (Dissolved M           VOC (Boein	Cond. (uS/cm) 329 329 330 330 330 330 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cya 1) (As) (Sb) (H etals) (As) (Sb) g short list)	D.O. (mg/L) 0.21 0.21 0.22 0.21 LOWED PE WTPH-G) ( I-D) (NWTF D) (TSS) (B D) (Total Kie anide) (Free Ba) (Be) (Ca D) (Ba) (Be) (Ca	pH 6.19 6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (Turbia dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -39.7 -40.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap 0 (BTEX) H-HCID) (8081) dity) (Alkalinity) b) (NH3) (NO3/ (Cr) (Cu) (Fe) (	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) non-standard an rease) Cl) (SO4) (NO Ni) (Ag) (Se) ('	(Fe II)	Observations OB Contemporation OR Contemporation OR Contemporation () (K) (Na)
Replicate 1 2 3 4 Average: QUANTITY 7	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260) (8010)           (8270D) (PA           (pH) (Condu           (COD) (TOO)           (Total Cyanic)           (Total Metals)           (Dissolved M           VOC (Boein)           Methane Eth	Cond. (uS/cm) 329 329 330 330 330 330 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cya 1) (As) (Sb) (H etals) (As) (Sb) g short list)	D.O. (mg/L) 0.21 0.21 0.22 0.21 LOWED PE WTPH-G) ( I-D) (NWTF D) (TSS) (B D) (Total Kie anide) (Free Ba) (Be) (Ca D) (Ba) (Be) (Ca	pH 6.19 6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (Turbia dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -39.7 -40.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap 0 (BTEX) H-HCID) (8081) dity) (Alkalinity) b) (NH3) (NO3/ (Cr) (Cu) (Fe) (	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) non-standard an rease) Cl) (SO4) (NO Ni) (Ag) (Se) ('	(Fe II)	Observations OB Contemporation OR Contemporation OR Contemporation () (K) (Na)
Replicate           1           2           3           4           Average:           QUANTITY           7           2	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260) (8010           (8270D) (P4           (PH) (Condu           (COD) (TOO           (Total Cyanic           (Dissolved M           VOC (Boein           Methane Eth           others	Cond. (uS/cm) 329 329 330 330 330 NALYSIS AL D) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cya ) (As) (Sb) (I etals) (As) (Sb) g short list) nane Ethene Ac	D.O. (mg/L) 0.21 0.21 0.22 0.21 LOWED PE WTPH-G) (( -D) (NWTF -) (Total Kie anide) (Free Ba) (Be) (Ca -) (Ba) (Be) (Ca 	pH 6.19 6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (Turbia dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -39.7 -40.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap 0 (BTEX) H-HCID) (8081) dity) (Alkalinity) b) (NH3) (NO3/ (Cr) (Cu) (Fe) (	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) non-standard an rease) Cl) (SO4) (NO Ni) (Ag) (Se) ('	(Fe II)	Observations OB Contemporation OR Contemporation OR Contemporation () (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 7 2	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260) (8010           (8270D) (P4           (PH) (Condu           (COD) (TOO           (Total Cyanic           (Dissolved M           VOC (Boein           Methane Eth           others	Cond. (uS/cm) 329 329 330 330 330 330 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cya 1) (As) (Sb) (H etals) (As) (Sb) g short list)	D.O. (mg/L) 0.21 0.21 0.22 0.21 LOWED PE WTPH-G) (( -D) (NWTF -) (Total Kie anide) (Free Ba) (Be) (Ca -) (Ba) (Be) (Ca 	pH 6.19 6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (Turbia dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -39.7 -40.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap 0 (BTEX) H-HCID) (8081) dity) (Alkalinity) b) (NH3) (NO3/ (Cr) (Cu) (Fe) (	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) non-standard an rease) Cl) (SO4) (NO Ni) (Ag) (Se) ('	(Fe II)	Observations OB Contemporation OR Contemporation OR Contemporation () (K) (Na)
Replicate           1           2           3           4           Average:           QUANTITY           7           2	Temp (°F/°C)           21.14           21.17           21.17           21.17           21.17           21.16           TYPICAL A           (8260) (8010           (8270D) (P4           (PH) (Condu           (COD) (TOO           (Total Cyanic           (Dissolved M           VOC (Boein           Methane Eth           others	Cond. (uS/cm) 329 329 330 330 330 NALYSIS AL D) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cya ) (As) (Sb) (I etals) (As) (Sb) g short list) nane Ethene Ac	D.O. (mg/L) 0.21 0.21 0.22 0.21 LOWED PE WTPH-G) (( -D) (NWTF -) (Total Kie anide) (Free Ba) (Be) (Ca -) (Ba) (Be) (Ca 	pH 6.19 6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (TPH-Gx) PH-Dx) (Turbia dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -39.7 -40.7 -40.7 -41.0 -41.5 -40.7 TYPE (Circle ap 0 (BTEX) H-HCID) (8081) dity) (Alkalinity) b) (NH3) (NO3/ (Cr) (Cu) (Fe) (	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) non-standard an rease) Cl) (SO4) (NO Ni) (Ag) (Se) ('	(Fe II)	Observations OB Contemporation OR Contemporation OR Contemporation () (K) (Na)



Project Nam	e:	Boeing Ren	ton		Project Numbe	er:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/13 /2018@	1141		
Sample Nun	nber:	RGW189S-	180813		Weather:	HAZY 80S			
Landau Repr	resentative:	CEB							
WATER LEV	EL/WELL/P	URGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	7.85	Time:	1109	Flow through ce	l <u>l vol.</u>		GW Meter No.(s	s 1
Begin Purge:	Date/Time:	8/13 /2018	1111	End Purge:	Date/Time:	8/13 /2018 @	1130	Gallons Purged:	0.20
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	tore for three	(mV)	(NTU) dings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3  ft	through cell	
1114	20.0	1781.0	0.23	4.60	84.1	LOW	7.98		
1117	21.7	2064.0	0.41	4.54	75.6		7.95		
1120	22.4	2236.0	0.65	4.53	72.2		7.95		
1123	23.3	2312.0	0.77	4.53	69.1				
1125	23.6	2375.0	0.79	4.54	65.8				
				4.54	61.9		1.)1		
1129	24.6	2496.0	0.86	4.54	01.9				
SAMPLE CO	LIECTIONI	<u> </u>							
Sample Colle			Bailer	لي	Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Wa	sh 🗖	Tap Rinse	DI Water	Dedicated		<b>∽</b> <del>%</del>	
(By Numerica	l Order)	Other			<del>ال</del>	78			
Sample Descr	iption (color, 1	turbidity, odor	sheen, etc.):	COLORLES	S, SOME BLAC	K PARTICULATE	S, ROTTEN OD	OR, NS	
Replicate	Temp	Cond.	D.O.	pH	ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	(°F/°C)	(uS/cm)	(mg/L)	pii	(mV)	(NTU)	(ft)	(Fe II)	Observations
1	24.6	2506.0	0.86	4.54	61.6				
2	24.6	2514.0	0.85	4.54	61.3				
3	24.8	2527.0	0.82	4.54	61.2				
4	24.9	2535.0	0.84	4.54	60.9				
Average:	24.7	2520.5	0.84	4.54	61.3	#DIV/0!			
QUANTITY 7		NALYSIS AI 0) (8020) (N				oplicable or write 1	ion-standard ar	WA 🗆	OR 🗆
2					H-HCID) (8081)	(8141) (Oil & G	rease)	WA 🗆	OR 🗆
						) (HCO3/CO3) (C			
1	(COD) ( <mark>TO</mark>				a) (NH3) (NO3)	/NO2)			
		le) (WAD Cy							
						(Pb) (Mg) (Mn) (If h) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg			<u>g) (K) (Na)</u> Na) (Hardness) (Silica
	VOC (Boein		<u>) (Ba) (Be) (С</u>	<u>.a) (Cd) (Co)</u>	(Cr) (Cu) (Fe) (P	b) (Mg) (Mn) (N1) (	Ag) (Se) (11) (V	) (Zn) (Hg) (K) (r	Na) (Hardness) (Silica
		ane Ethene Ad	cetylene						
	others								
Duplicate San	nple No(s):	MSMSD Loo	cation						
Comments:		SOAK SOCK		WENT DRY	DURING SAMI	PLING WAITED 5	MIN FOR RECI	HARGE	
Signature:	CEB					Date:	8/13/2018		

P:\8888 - Boeing Renton\02 Data Management\2018\3Q2018\field data\Landau Files\AOC-90\_8.13.18\_CEB.xlsx



Event:         Quarterly August 2018         Date/Time:         8/.13         //10.168         1155           Sample Number:         SRE         70. clear         70. clear         70. clear         70. clear           MATTER LEVEL /VELL/VELE/B DATA         Weather:         70. clear         70. clear         70. clear           DTW Before Purging (1)         6.99         Time:         1118         Flow through cell vol.         6W Metr No.(6 person.2	Event	e:	Boeing Rent	ton		Project Number	r:	0025217.099.0	99	
SAB         SATE VIEL/VIEL/VIEL/CROBE DATA         WATTER VIEL/VIEL/VIEL/ORGE DATA         WATTER VIEL/VIEL/VIEL/ORGE DATA         Object Transe       Secure (VES)       Damaged (NO)       Describe:       OW Meer Not's heron?.         DTW Bence Punging (II)       6.89       Time       III 8       Flow through cell val.       Object Transe VII 12/2018 @       Other Not's heron?.       OTHE         Proge water Uspoed u:       On the image of NO.       PH       ORP       Turbulity       Other Turbulity       Other Not's heron?.       Other Not's heron?.       Other Not's NOT n	Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@	1155		
WATER LEVEL/AVELLAPURGE DATA       Damaged (NO)       Describe:	Sample Num	ber:	RGW207S-	180813		Weather:	70s clear			
Well code       Source (VES)       Damaget (N)       Describe:	Landau Repr	esentative:	SRB							
DTW Before Purging (I)       6.89       Time:       1118       Flow through cell vol.       GW Meter No.(5 heroui2       0.25         Purger water disposed to:       55-gal Drum       Storage Task       Ground       Other       Ittle Gallans Purget:       0.25         Time       Temp (VFC)       Cond.       D.O.       pH       ORP       Turbidity       DTW       Internal Purge       Connentio/ (NUL)       Observations         Time       Purge Galds: Exblands for Parameters for three concentre readings within the following limits       >>110       Through cell       Commentio/ Observations         1128       10.7       44.26       0.30       6.17       17.5       6.91	WATER LEV	EL/WELL/PU	IRGE DATA							
Begin Purge:       Date/Time:       V 13 /2018       I142       Galons Purged:       0.23         Purge water disposed to:       0       35-gal Drum       Storage Tank       Ground       Other       Other       0.25         Purge water disposed to:       0       35-gal Drum       Storage Tank       Ground       Other       There       Calons Purged:       0.25         Purge water disposed to:       0       0.06       PUR       Thribitity       PUR       Thribitity       Other and the purged:       0.25         Purge Goalts: Stabilization of Parameters for three conscriptor calling within the following	Well Conditio	n:	Secure (YES)	)	Damaged (N	O)	Describe:			
Purge water disposed to:         D         55-gal Drum         Storage Tark         Ground         Other         STTE TREATMENT SYSTEM           Time         Temp         Cond. (rg/C)         D.O. (rg/C)         pH         ORP         Turbidity (rg/C)         DTW         Internal Purge Volume (rg/C)         Consent/ Storage Tark         Consent/ (rg/C)         Observations           1128         19.7         462.6         0.30         6.15         23.0         LOW         6.91	DTW Before l	Purging (ft)	6.89	Time:	1118	Flow through cel	vol.		GW Meter No.(s	heron2
Time         Temp (F/C)         Cond. (uS/cm)         D.O. (mg/L)         pH (my)         ORP (my)         Turbidity (NTU)         DTW (NTU)         Internal Purge Volume (gal)         Comments/ Observations           1128         19.7         46.26         0.30         6.15         2.20         LOW         6.91           1131         19.9         470.1         0.25         6.17         17.5         6.91	Begin Purge:	Date/Time:		1125	End Purge:	Date/Time:	8/ 13 /2018 @	1142	Gallons Purged:	0.25
Time         CF/C)         (us/k)         (us/k)         (vs/k)         (vs/k) <td>Purge water d</td> <td>isposed to:</td> <td></td> <td>55-gal Drum</td> <td></td> <td>Storage Tank</td> <td>Ground</td> <td>Other</td> <td>SITE TREATM</td> <td>ENT SYSTEM</td>	Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Purge Gale: Stabilization of Parameters for three consecutive readings within the following limits birough cell           1128         19.7         462.6         0.30         6.15         23.0         LOW         6.91           1131         19.9         470.1         0.25         6.17         17.5         6.91           1134         20.0         477.5         0.20         6.20         10.5         6.01           1137         19.9         480.0         0.18         6.21         3.7					pН		•		U	
+f. 3%         +f. 10%         +f. 10 mV         +f. 10%         +f. 10%         cl.3.h         through cell           1128         19.7         462.6         0.30         6.15         23.0         LOW         6.91	Time	( )	· /		ters for three	· /	· /	· · · ·	0 /	Observations
1131       199       470.1       0.25       6.17       17.5       6.91         1134       20.0       477.5       0.20       6.20       10.5.       6.91         1137       19.9       480.0       0.18       6.21       6.0		0					0			
1134       200       477.5       0.20       6.20       10.5       6.91         1137       19.9       480.0       0.18       6.21       6.0         1140       19.7       480.1       0.19       6.21       3.7         SAMPLE COLLECTION DATA	1128	19.7	462.6	0.30	6.15	23.0	LOW	6.91		
1134       200       477.5       0.20       6.20       10.5       6.91         1137       19.9       480.0       0.18       6.21       6.0         1140       19.7       480.1       0.19       6.21       3.7         SAMPLE COLLECTION DATA	1131	19.9	470.1	0.25	6.17	17.5		6.91		
1137       19.9       480.0       0.18       6.21       6.0         1140       19.7       480.1       0.19       6.21       3.7         SAMPLE COLLECTION DATA         Sample Collected With:       Bailer       Pump/Pump Type ded bladder         Made of:       Stainless Steel       PVC       Teflon       Dedicated         Decon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated         Bosch Procedure:       Other       Other       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW CLEAR NO/NS       Ferrous iron       Comments/         May       (Ferrop       Cond.       D.0.       pH       ORP       Turbidity       DTW       Ferrous iron       Observations         1       19.8       481.2       0.20       6.20       3.5										
1140       19.7       480.1       0.19       6.21       3.7         SAMPLE COLLECTION DATA       Sample Collected With:       Bailer       Pump/Pump Type ded bladder         Made ol:       Stainless Steel       PVC       Teflon       Polypethylene       Other         Decon Procedure:       Alconox Wash       Tup Rinse       D IWater       Dedicated       Decicated         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW CLEAR NO/NS       Ferrous iron       Comments/         Replicate       Temp       Cond.       D.0.       pH       ORP       Turbidity       DTW       Ferrous iron       Comments/         1       19.8       480.0       0.18       6.20       3.5								0.91		
SAMPLE COLLECTION DATA         Sample Collected With:         Bailer         PUTP/Pump/Pump Type ded bladder         Made of:       Stainless Steel         PVC       Teflon         Polyethylene       Other         Sample Collected With:       Atoonox Wash         Tap Rinse       DI Water         Decon Procedure:       Atoonox Wash         Tap Rinse       DI Water         Deconservation (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW CLEAR NO/NS         Replicate       Temp ('FFC')       (mg/L)         (mg/L)       (mV)       (NTU)         (tf)       (Fe II)       Observations         1       19.8       480.0       0.18       6.20       3.5         2       19.9       481.2       0.20       6.20       3.1         3       19.7       481.3       0.19       6.20       2.8       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       7       (8260) (8010) (8020) (NWTPH-G) (NWTPH-G) (NWTPH-G)       (BTEX)       WA       OR         2       (S270D) (PAH) (NWTPH-D) (NWTPH-G) (NWTPH-G) (NWTPH-G) (SES)       (S141) (Oil & Grease)       WA       OR										
Sample Collected With:       Bailer       Pump/Pump Type ded bladder         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Becon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated       Other       Dedicated         Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW CLEAR NO/NS         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       OTW       Ferrous iron       Comments/         1       19.8       480.0       0.18       6.20       3.5	1140	19.7	480.1	0.19	6.21	3.7				
Sample Collected With:       Bailer       Pump/Pump Type ded bladder         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Becon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated       Dedicated         (By Numerical Order)       Other       Other       Comments/       Other       Dedicated         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       OTW       Ferrous iron       Comments/         1       19.8       480.0       0.18       6.20       3.5										
Sample Collected With:       Bailer       Pump/Pump Type ded bladder         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Becon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated       Dedicated         (By Numerical Order)       Other       Other       Comments/       Other       Dedicated         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       OTW       Ferrous iron       Comments/         1       19.8       480.0       0.18       6.20       3.5										
Sample Collected With:       Bailer       Pump/Pump Type ded bladder         Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Becon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated       Dedicated         (By Numerical Order)       Other       Other       Comments/       Other       Dedicated         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       OTW       Ferrous iron       Comments/         1       19.8       480.0       0.18       6.20       3.5										
Made of:       Stainless Steel       PVC       Teflon       Polyethylene       Other       Dedicated         Becon Procedure:       Alconox Wash       Tap Rinse       DI Water       Dedicated         (By Numerical Order)       Other       Other       SLIGHTLY YELLOW CLEAR NO/NS         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       DTW       Ferrous iron       Observations         1       19.8       480.0       0.18       6.20       3.5				D 11						
Decon Procedure:       Alconox Wash       Tap Rinse       D Water       Dedicated         (By Numerical Order)       Other       Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW CLEAR NO/NS         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       DTW       Ferrous iron       Comments/         1       19.8       480.0       0.18       6.20       3.5		ted With:				_				
(By Numerical Order)       Other				_				U Other	Dedicated	
Sample Description (color, turbidity, odor, sheen, etc.):       SLIGHTLY YELLOW CLEAR NO/NS         Replicate       Temp       Cond.       D.O.       pH       ORP       Turbidity       DTW       Ferrous iron       Comments/         1       19.8       480.0       0.18       6.20       3.5				h L	Tap Rinse	DI Water	Dedicated			
Replicate         Temp (°F/°C)         Cond. (uS/cm)         D.O. (mg/L)         pH         ORP (mV)         Turbidity (NTU)         DTW (ft)         Ferrous iron (Fe II)         Comments/ Observations           1         19.8         480.0         0.18         6.20         3.5		<i>,</i>		shoon ata):	SI ICUTI V	VELLOW CLEAR				
(°Fr°C)       (us/cm)       (mgL)       (mV)       (NTU)       (ft)       (Fe II)       Observations         1       19.8       480.0       0.18       6.20       3.5	Sample Deser	iption (color, t	urbluity, ouor,	sheen, etc.).	SEIGHTET	TLELOW CLEAN				
1       19.8       480.0       0.18       6.20       3.5         2       19.9       481.2       0.20       6.20       3.1         3       19.7       481.3       0.19       6.20       2.5         4       19.8       481.3       0.18       6.20       2.1         Average:       19.8       481.0       0.19       6.20       2.8       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       7       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-G)       (NTPH-G)       (BTEX)       WA       OR       2         2       (8270D)       (PAH)       (NWTPH-D)       (ThrH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       2         3       (DF)       (COD)       (Total Veride)       (Total Kiedahl Nitrogen)       (NH3)       (NO3/NO2)       (Total Conductivity)       (TDS)       (Ea)       (Ca)       (Ca) <td>Replicate</td> <td></td> <td>Cond.</td> <td></td> <td>pН</td> <td></td> <td>Turbidity</td> <td>DTW</td> <td></td> <td></td>	Replicate		Cond.		pН		Turbidity	DTW		
2       19.9       481.2       0.20       6.20       3.1         3       19.7       481.3       0.19       6.20       2.5         4       19.8       481.3       0.18       6.20       2.1         Average:       19.8       481.0       0.19       6.20       2.8       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       0R       1         7       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-G)       (BTEX)       WA       OR       1         2       (8270D)       (PAH)       (NWTPH-D)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       1         2       (8270D)       (PAH)       (NWTPH-D)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       1         2       (8270D)       (PAH)       (NWTPH-D)       (NWTPH-D)       (WHPH-G)       (NWTPH-G)       (NWTPH-G)       (PH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       1         2       (620)       (TOC)       (Total PO4)       (Total Kiedahl Nitrogen)       (NH3)       (NO3		(° <b>F</b> /° <b>C</b> )	(uS/cm)	(mg/L)		( <b>mV</b> )	(NTU)	( <b>ft</b> )	(Fe II)	Observations
3       19.7       481.3       0.19       6.20       2.5         4       19.8       481.3       0.18       6.20       2.1         Average:       19.8       481.0       0.19       6.20       2.8       #DIV/0!         QUANTITY         TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)         7       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-GX)       (BTEX)       WA       OR	1	19.8	480.0	0.18	6.20	3.5				
4       19.8       481.3       0.18       6.20       2.1         Average:       19.8       481.0       0.19       6.20       2.8       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       0R       0         7       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       0R       0         2       (8270D)       (PAH)       (NWTPH-D)       (NWTPH-Dx)       (TPH-HCID)       (8081)       (8141)       (0il & Grease)       WA       0R       0         (pH)       (Conductivity)       (TDS)       (TSS)       (BOD)       (Turbidity)       (Alkalinity)       (HCO3/CO3)       (Cl)       (SO4)       (NO2)       (F)         (COD)       (TOC)       (Total Kiedahl Nitrogen)       (NH3)       (NO3/NO2)       (Total Cyanide)       (Free Cyanide)         (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Xu)       (As)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Xu)       (Xu)       (Xu)       (Xu)       (Xu)       (Xu)       (Xu)       (Xu) <t< td=""><td>2</td><td>19.9</td><td>481.2</td><td>0.20</td><td>6.20</td><td>3.1</td><td></td><td>,<u> </u></td><td></td><td></td></t<>	2	19.9	481.2	0.20	6.20	3.1		, <u> </u>		
Average:       19.8       481.0       0.19       6.20       2.8       #DIV/0!         QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)       7         7       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR	3	19.7	481.3	0.19	6.20	2.5				
QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)         7       (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX)       WA       OR         2       (8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA       OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)         (Total Cyanide) (WAD Cyanide) (Free Cyanide)       (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)       Methane Ethane Ethene Acetylene         others       O	4	19.8	481.3	0.18	6.20	2.1				
QUANTITY       TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)         7       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR         2       (8270D)       (PAH)       (NWTPH-D)       (NWTPH-Dx)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       Image: Constraint of the constra	Average:	19.8	481.0	0.19	6.20	2.8	#DIV/0!			
7       (8260)       (8010)       (8020)       (NWTPH-G)       (NWTPH-Gx)       (BTEX)       WA       OR         2       (8270D)       (PAH)       (NWTPH-D)       (NWTPH-Dx)       (TPH-HCID)       (8081)       (8141)       (Oil & Grease)       WA       OR       OR         (pH)       (Conductivity)       (TDS)       (TSS)       (BOD)       (Turbidity)       (Alkalinity)       (HCO3/CO3)       (Cl)       (SO4)       (NO2)       (F)         (COD)       (TOC)       (Total PO4)       (Total Kiedahl Nitrogen)       (NH3)       (NO3/NO2)       (Total Cyanide)       (Free Cyanide)         (Total Quaride)       (WAD Cyanide)       (Free Cyanide)       (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Cu)       (Fe)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (TI)       (V)       (Zn)       (Hg)       (K)       (Na)         (Dissolved Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Cu)       (Fe)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (Ni)       (Ma)       (Mathews)		TVDICAL A								
2       (8270D) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease)       WA       OR       OR         (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)       (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)       (Total Cyanide) (WAD Cyanide) (Free Cyanide)         (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)       (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)       Methane Ethane Ethene Acetylene       Image: Comparison of the temperature of temperature of the temperature of tempe			NAT VOIC AT	LOWED DE	D DOTTI F	TVDE (Cinala an	nliaghla an muita n	on standard an	alveia balaw)	
(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)(COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)(Total Cyanide) (WAD Cyanide) (Free Cyanide)(Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)(Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)VOC (Boeing short list)Methane Ethene Acetyleneothers							plicable or write n	on-standard an		OR 🗆
(Total Cyanide)       (WAD Cyanide)       (Free Cyanide)         (Total Cyanide)       (WAD Cyanide)       (Free Cyanide)         (Total Metals)       (As)       (Sb)       (Ba)       (Be)       (Ca)       (Cd)       (Co)       (Cr)       (Cu)       (Fe)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (Tl)       (V)       (Zn)       (Hg)       (K)       (Na)         (Dissolved Metals)       (As)       (Sb)       (Ba)       (Ba)       (Ca)       (Cd)       (Co)       (Cr)       (Cu)       (Fe)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (Tl)       (V)       (Zn)       (Hg)       (K)       (Na)         (Dissolved Metals)       (As)       (Sb)       (Ba)       (Ca)       (Cd)       (Co)       (Cr)       (Cu)       (Fe)       (Pb)       (Mg)       (Mn)       (Ni)       (Ag)       (Se)       (Tl)       (V)       (Zn)       (Hg)       (K)       (Na)       (Hardness)       (Silica)         VOC       (Boeing short list)       (Boeing short list) <td< td=""><td>7</td><td>(<b>8260</b>) (8010</td><td>0) (8020) (N</td><td>WTPH-G) (</td><td>NWTPH-Gx)</td><td>(BTEX)</td><td></td><td></td><td>WA 🗆</td><td></td></td<>	7	( <b>8260</b> ) (8010	0) (8020) (N	WTPH-G) (	NWTPH-Gx)	(BTEX)			WA 🗆	
(Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)         (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others	7	( <mark>8260</mark> ) (8010 (8270D) (PA	)) (8020) (N AH) (NWTPH	WTPH-G) (] [-D) ( <mark>NWTP</mark>	NWTPH-Gx) H-Dx) (TPH	(BTEX) I-HCID) (8081)	(8141) (Oil & Gre	ease)	WA 🗆 WA 🗆	
(Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)         VOC (Boeing short list)         Methane Ethane Ethene Acetylene         others	7	( <mark>8260</mark> ) (8010 (8270D) (PA (pH) (Condu	)) (8020) (N AH) (NWTPH ctivity) (TDS	WTPH-G) (1 -D) ( <mark>NWTP</mark> ) (TSS) (B	<mark>NWTPH-Gx)</mark> H-Dx) (TPH OD) (Turbid	(BTEX) I-HCID) (8081) ity) (Alkalinity)	(8141) (Oil & Gra (HCO3/CO3) (Cl	ease)	WA 🗆 WA 🗆	
VOC (Boeing short list) Methane Ethene Acetylene others	7	(8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC	)) (8020) (N AH) (NWTPH ctivity) (TDS C) (Total PO4	WTPH-G) (1 I-D) (NWTP I) (TSS) (B0 ) (Total Kiec	NWTPH-Gx) H-Dx) (TPH DD) (Turbid lahl Nitrogen	(BTEX) I-HCID) (8081) ity) (Alkalinity)	(8141) (Oil & Gra (HCO3/CO3) (Cl	ease)	WA 🗆 WA 🗆	
Methane Ethane Ethane Acetylene         Image: Constraint of the sector	7	(8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	)) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya (As) (Sb) (F	WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca)	NWTPH-Gx) H-Dx) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	(BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/M (Cr) (Cu) (Fe) (H	(8141) (Oil & Gre (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	ease) ) (SO4) (NO3) i) (Ag) (Se) (Th	WA WA ) (NO2) (F)	OR  (K) (Na)
others	7	(8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Metals)	)) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya o) (As) (Sb) (F etals) (As) (Sb)	WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiec anide) (Free Ba) (Be) (Ca)	NWTPH-Gx) H-Dx) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	(BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/M (Cr) (Cu) (Fe) (H	(8141) (Oil & Gre (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	ease) ) (SO4) (NO3) i) (Ag) (Se) (Th	WA WA ) (NO2) (F)	OR  (K) (Na)
	7	(8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Me VOC (Boein	)) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb) g short list)	WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece anide) (Free ( Ba) (Be) (Ca ) (Ba) (Be) (Ca	NWTPH-Gx) H-Dx) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	(BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/M (Cr) (Cu) (Fe) (H	(8141) (Oil & Gre (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	ease) ) (SO4) (NO3) i) (Ag) (Se) (Th	WA WA ) (NO2) (F)	OR  (K) (Na)
	7	(8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Me VOC (Boein	)) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb) g short list)	WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece anide) (Free ( Ba) (Be) (Ca ) (Ba) (Be) (Ca	NWTPH-Gx) H-Dx) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	(BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/M (Cr) (Cu) (Fe) (H	(8141) (Oil & Gre (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	ease) ) (SO4) (NO3) i) (Ag) (Se) (Th	WA WA ) (NO2) (F)	OR  (K) (Na)
Duplicate Sample No(s):	7	(8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Me VOC (Boein	)) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb) g short list)	WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece anide) (Free ( Ba) (Be) (Ca ) (Ba) (Be) (Ca	NWTPH-Gx) H-Dx) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	(BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/M (Cr) (Cu) (Fe) (H	(8141) (Oil & Gre (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	ease) ) (SO4) (NO3) i) (Ag) (Se) (Th	WA WA ) (NO2) (F)	OR  (K) (Na)
Duplicate Sample No(s):	7 2	(8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Ma VOC (Boein Methane Eth	)) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb) g short list)	WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece anide) (Free ( Ba) (Be) (Ca ) (Ba) (Be) (Ca	NWTPH-Gx) H-Dx) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	(BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/M (Cr) (Cu) (Fe) (H	(8141) (Oil & Gre (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	ease) ) (SO4) (NO3) i) (Ag) (Se) (Th	WA WA ) (NO2) (F)	OR  (K) (Na)
Commonter		(8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Ma VOC (Boein Methane Eth others	)) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb) g short list)	WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece anide) (Free ( Ba) (Be) (Ca ) (Ba) (Be) (Ca	NWTPH-Gx) H-Dx) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	(BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/M (Cr) (Cu) (Fe) (H	(8141) (Oil & Gre (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	ease) ) (SO4) (NO3) i) (Ag) (Se) (Th	WA WA ) (NO2) (F)	OR  (K) (Na)
	7 2	(8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Ma VOC (Boein Methane Eth others	)) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb) g short list)	WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece anide) (Free ( Ba) (Be) (Ca ) (Ba) (Be) (Ca	NWTPH-Gx) H-Dx) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	(BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/M (Cr) (Cu) (Fe) (H	(8141) (Oil & Gre (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N	ease) ) (SO4) (NO3) i) (Ag) (Se) (Th	WA WA ) (NO2) (F)	OR  (K) (Na)
Signature: SRB Date: 8/13/2018	7 2 	(8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals) (Dissolved Me VOC (Boein Methane Eth others	)) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb) g short list)	WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece anide) (Free ( Ba) (Be) (Ca ) (Ba) (Be) (Ca	NWTPH-Gx) H-Dx) (TPH DD) (Turbid lahl Nitrogen Cyanide) ) (Cd) (Co)	(BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/M (Cr) (Cu) (Fe) (H	(8141) (Oil & Gra (HCO3/CO3) (Cl NO2) Pb) (Mg) (Mn) (N ) (Mg) (Mn) (Ni) (A	ease) ) (SO4) (NO3 i) (Ag) (Se) (Tl) Ag) (Se) (Tl) (V)	WA WA ) (NO2) (F)	OR  (K) (Na)



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 13 /2018@ 1	336		
Sample Nun	nber:	RGW208S-	180813		Weather:	60'S, PARTLY S	UNNY		
Landau Rep	resentative:	JHA							
WATER LEV	/EL/WELL/P	URGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	O)	Describe:			
DTW Before	Purging (ft)	8.21	Time:	1310	Flow through ce	l vol.		GW Meter No.(s	SLOPE 2
Begin Purge:	Date/Time:	8/ 13 /2018	@ 1313	End Purge:	Date/Time:	8/ 13 /2018 @ 13	34	Gallons Purged:	0.75
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATME	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C) Purge Goa	(uS/cm) ls: Stablizatio	(mg/L) on of Paramet	ters for three	(mV) consecutive rea	(NTU) dings within the fol	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1316	20.17	583	0.20	6.10	-48.0	LOW	8.26		
1319	20.12	585	0.14	6.13	-67.5				
1322	20.16	583	0.13	6.52	-77.9		8.26	0.25	
1325	20.21	580	0.12	6.68	-84.9				
1328		578	0.11	6.77	-90.7				
1331		576	0.11	6.86	-94.7				
1333		574	0.11	6.99	-98.1				
1555	20.10		0.11	0.99	-90.1				
SAMPLE CC	LLECTION I	DATA							
Sample Colle			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proceed	lure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated			
						Dealeatea			
(By Numerica	ıl Order)	Other		1					
	,			-	LORLESS, NO/				
Sample Descr	ription (color, 1	turbidity, odor,	sheen, etc.):	CLEAR, CO	LORLESS, NO/N	IS	DTW	Ferrous iron	Comments/
	,			-			DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	ription (color, t	turbidity, odor,	sheen, etc.):	CLEAR, CO	LORLESS, NO/1	Turbidity			
Sample Descr Replicate	ription (color, t Temp (°F/°C)	turbidity, odor, Cond. (uS/cm)	D.O. (mg/L)	CLEAR, CO	LORLESS, NO/M ORP (mV)	Turbidity			
Sample Descr Replicate	<b>Temp</b> (° <b>F</b> /° <b>C</b> ) 20.15	Cond. (uS/cm) 574	sheen, etc.): D.O. (mg/L) 0.11	CLEAR, CO pH 6.99	UORLESS, NO/M ORP (mV) -98.4	Turbidity			
Sample Descr Replicate	ription (color, t Temp (°F/°C) 20.15 20.16	Cond. (uS/cm) 574 573 573	sheen, etc.): D.O. (mg/L) 0.11 0.10	CLEAR, CC pH 6.99 7.00	ORP (mV) -98.4 -98.7	Turbidity			
Sample Descr Replicate	ription (color, t Temp (°F/°C) 20.15 20.16 20.18	Cond. (uS/cm) 574 573	sheen, etc.): D.O. (mg/L) 0.11 0.10 0.10	CLEAR, CO pH 6.99 7.00 7.01	ORP (mV) -98.4 -98.7 -99.1	Turbidity			
Sample Descr Replicate	ription (color, t Temp (°F/°C) 20.15 20.16 20.18 20.19 20.17	Cond. (uS/cm) 574 573 573 572 573	sheen, etc.): D.O. (mg/L) 0.11 0.10 0.10 0.10 0.10	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01	CRP (mV) -98.4 -98.7 -99.1 -99.4 -98.9	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	
Sample Descr Replicate	ription (color, t Temp (°F/°C) 20.15 20.16 20.18 20.19 20.17 TYPICAL A	Cond. (uS/cm) 574 573 573 573 572 573 NALYSIS AI	sheen, etc.): D.O. (mg/L) 0.11 0.10 0.10 0.10 0.10 LOWED PE	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01 7.00 <b>R BOTTLE</b>	CORP (mV) -98.4 -98.7 -99.1 -99.4 -98.9 TYPE (Circle a	Turbidity (NTU)	(ft)	(Fe II)	
Sample Descr Replicate 1 2 3 4 Average: QUANTITY	ription (color, t Temp (°F/°C) 20.15 20.16 20.18 20.19 20.17 TYPICAL A (8260) (8010	Cond. (uS/cm) 574 573 573 573 573 572 573 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.11 0.10 0.10 0.10 0.10 0.10 LIOWED PE WTPH-G) (	CLEAR, CC <b>pH</b> 6.99 7.00 7.01 7.01 7.00 <b>R BOTTLE</b> <b>NWTPH-G</b> x)	CORP (mV) -98.4 -98.7 -99.1 -99.4 -99.4 -98.9 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	Observations
Sample Descr Replicate 1 2 3 4 Average: QUANTITY 7	ription (color, t Temp (°F/°C) 20.15 20.16 20.18 20.19 20.17 TYPICAL A (8260) (8010 (8270D) (P4 (pH) (Condu	Cond. (uS/cm) 574 573 573 573 572 573 NALYSIS AI D) (8020) (N AH) (NWTPH activity) (TDS	sheen, etc.):         D.O.         (mg/L)         0.11         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         S) (TSS) (B	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01 7.00 <b>R BOTTLE</b> NWTPH-Gx) PH-Dx) (TPH OD) (Turbia	CRP (mV) -98.4 -98.7 -99.1 -99.4 -98.9 TYPE (Circle aj (BTEX) t-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) #DIV/0! #DIV/0! pplicable or write n (8141) (Oil & Gr (HCO3/CO3) (C	(ft) on-standard an ease)	(Fe II)	Observations
Sample Descr Replicate 1 2 3 4 Average: QUANTITY 7	ription (color, t Temp (°F/°C) 20.15 20.15 20.16 20.18 20.19 20.17 TYPICAL A (8260) (8010 (8270D) (P/ (pH) (Condu (COD) (TOO	Cond. (uS/cm) 574 573 573 572 573 572 573 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO-	b.o.         (mg/L)         0.11         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         ID         (NWTP         5)       (TSS)         4)         (Total Kie	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01 7.01 7.01 7.00 <b>R BOTTLE</b> NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen	CORP (mV) -98.4 -98.7 -99.1 -99.4 -99.4 -98.9 TYPE (Circle a) (BTEX) 1-HCID) (8081)	Turbidity (NTU) #DIV/0! #DIV/0! pplicable or write n (8141) (Oil & Gr (HCO3/CO3) (C	(ft) on-standard an ease)	(Fe II)	Observations
Sample Descr Replicate 1 2 3 4 Average: QUANTITY 7	ription (color, t Temp (°F/°C) 20.15 20.15 20.16 20.18 20.19 20.17 TYPICAL A (8260) (8010 (8270D) (P4 (pH) (Condu (COD) (TOO (Total Cyanic	Cond. (uS/cm) 574 573 573 573 573 573 573 573 573 0 (8020) (N AH) (NWTPH activity) (TDS C) (Total PO- le) (WAD Cy	b.o.         (mg/L)         0.11         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         (Total Kie         anide) (Free	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01 7.01 7.00 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitroger Cyanide)	ORP (mV) -98.4 -98.7 -99.1 -99.4 -99.4 -98.9 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	Turbidity (NTU) #DIV/0! pplicable or write n (8141) (Oil & Gr (HCO3/CO3) (C NO2)	(ft) on-standard ar ease) 1) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Sample Descr Replicate 1 2 3 4 Average: QUANTITY 7	ription (color, t Temp (°F/°C) 20.15 20.16 20.18 20.19 20.17 TYPICAL A (8260) (8010 (8270D) (P4 (PH) (Condu (COD) (TOO (Total Cyanic (Total Metals	Cond.           (uS/cm)           574           573           573           573           573           573           573           573           573           573           573           0) (8020) (N           AH) (NWTPH           activity) (TDS           C) (Total PO4           le) (WAD Cy           ) (As) (Sb) (C	b.o.         (mg/L)         0.11         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         (MTPH-G) (Hereet Ba) (Be) (Casta Kiesta Article Stata Article A	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01 7.00 <b>R BOTTLE</b> NWTPH-Gx) PH-Dx) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	UORLESS, NO/N           ORP (mV)           -98.4           -98.7           -99.1           -99.4           -99.4           -98.9           TYPE (Circle a)           0 (BTEX)           H-HCID) (8081)           dity) (Alkalinity)           0) (NH3) (NO3)           (Cr) (Cu) (Fe)	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) 1) (SO4) (NO Ti) (Ag) (Se) (	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Sample Descr Replicate 1 2 3 4 Average: QUANTITY 7	ription (color, t Temp (°F/°C) 20.15 20.16 20.18 20.19 20.17 TYPICAL A (8260) (8010 (8270D) (P4 (8270D) (P4 (COD) (TOO (Total Cyanic (Dissolved M	Cond.           (uS/cm)           574           573           573           573           573           573           573           573           573           573           573           573           573           0) (8020) (N           AH) (NWTPH           1ctivity) (TDS           C) (Total PO2           le) (WAD Cy           ) (As) (Sb) (2	b.o.         (mg/L)         0.11         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         (MTPH-G) (Hereet Ba) (Be) (Casta Kiesta Article Stata Article A	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01 7.00 <b>R BOTTLE</b> NWTPH-Gx) PH-Dx) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	UORLESS, NO/N           ORP (mV)           -98.4           -98.7           -99.1           -99.4           -99.4           -98.9           TYPE (Circle a)           0 (BTEX)           H-HCID) (8081)           dity) (Alkalinity)           0) (NH3) (NO3)           (Cr) (Cu) (Fe)	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) 1) (SO4) (NO Ti) (Ag) (Se) (	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Sample Descr Replicate 1 2 3 4 Average: QUANTITY 7	ription (color, t Temp (°F/°C) 20.15 20.15 20.16 20.18 20.19 20.17 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (COD) (TOO (Total Cyanic (Dissolved M VOC (Boein	Cond. (uS/cm) 574 573 573 573 572 573 572 573 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cy ) (As) (Sb) (a etals) (As) (Sb) g short list)	sheen, etc.):         D.O.         (mg/L)         0.11         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         IDUBED PE         WTPH-G) (NWTP         S) (TSS) (B         4) (Total Kie         anide) (Free         Ba) (Be) (Ca         () (Ba) (Be) (Ca	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01 7.00 <b>R BOTTLE</b> NWTPH-Gx) PH-Dx) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	UORLESS, NO/N           ORP (mV)           -98.4           -98.7           -99.1           -99.4           -99.4           -98.9           TYPE (Circle a)           0 (BTEX)           H-HCID) (8081)           dity) (Alkalinity)           0) (NH3) (NO3)           (Cr) (Cu) (Fe)	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) 1) (SO4) (NO Ti) (Ag) (Se) (	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Sample Descr Replicate 1 2 3 4 Average: QUANTITY 7	ription (color, t Temp (°F/°C) 20.15 20.15 20.16 20.18 20.19 20.17 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (COD) (TOO (Total Cyanic (Dissolved M VOC (Boein	Cond.           (uS/cm)           574           573           573           573           573           573           573           573           573           573           573           573           573           0) (8020) (N           AH) (NWTPH           1ctivity) (TDS           C) (Total PO2           le) (WAD Cy           ) (As) (Sb) (2	sheen, etc.):         D.O.         (mg/L)         0.11         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         IDUBED PE         WTPH-G) (NWTP         S) (TSS) (B         4) (Total Kie         anide) (Free         Ba) (Be) (Ca         () (Ba) (Be) (Ca	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01 7.00 <b>R BOTTLE</b> NWTPH-Gx) PH-Dx) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	UORLESS, NO/N           ORP (mV)           -98.4           -98.7           -99.1           -99.4           -99.4           -98.9           TYPE (Circle a)           0 (BTEX)           H-HCID) (8081)           dity) (Alkalinity)           0) (NH3) (NO3)           (Cr) (Cu) (Fe)	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) 1) (SO4) (NO Ti) (Ag) (Se) (	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Sample Descr Replicate 1 2 3 4 Average: QUANTITY 7	ription (color, t Temp (°F/°C) 20.15 20.15 20.16 20.18 20.19 20.17 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (COD) (TOO (Total Cyanic (Dissolved M VOC (Boein	Cond. (uS/cm) 574 573 573 573 572 573 572 573 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cy ) (As) (Sb) (a etals) (As) (Sb) g short list)	sheen, etc.):         D.O.         (mg/L)         0.11         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         IDUBED PE         WTPH-G) (NWTP         S) (TSS) (B         4) (Total Kie         anide) (Free         Ba) (Be) (Ca         () (Ba) (Be) (Ca	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01 7.00 <b>R BOTTLE</b> NWTPH-Gx) PH-Dx) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	UORLESS, NO/N           ORP (mV)           -98.4           -98.7           -99.1           -99.4           -99.4           -98.9           TYPE (Circle a)           0 (BTEX)           H-HCID) (8081)           dity) (Alkalinity)           0) (NH3) (NO3)           (Cr) (Cu) (Fe)	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) 1) (SO4) (NO Ti) (Ag) (Se) (	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Sample Descr Replicate 1 2 3 4 Average: QUANTITY 7	ription (color, t Temp (°F/°C) 20.15 20.15 20.16 20.18 20.19 20.17 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (COD) (TOO (Total Cyanic (Dissolved M VOC (Boein	Cond. (uS/cm) 574 573 573 573 572 573 572 573 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cy ) (As) (Sb) (a etals) (As) (Sb) g short list)	sheen, etc.):         D.O.         (mg/L)         0.11         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         IDUBED PE         WTPH-G) (NWTP         S) (TSS) (B         4) (Total Kie         anide) (Free         Ba) (Be) (Ca         () (Ba) (Be) (Ca	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01 7.00 <b>R BOTTLE</b> NWTPH-Gx) PH-Dx) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	UORLESS, NO/N           ORP (mV)           -98.4           -98.7           -99.1           -99.4           -99.4           -98.9           TYPE (Circle a)           0 (BTEX)           H-HCID) (8081)           dity) (Alkalinity)           0) (NH3) (NO3)           (Cr) (Cu) (Fe)	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) 1) (SO4) (NO Ti) (Ag) (Se) (	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Sample Descr Replicate 1 2 3 4 Average: QUANTITY 7	ription (color, t Temp (°F/°C) 20.15 20.16 20.18 20.19 20.17 TYPICAL A (8260) (8010 (8270D) (PA (8270D) (PA (PH) (Condu (COD) (TOO (Total Cyanic (Dissolved M VOC (Boein Methane Eth others	Cond. (uS/cm) 574 573 573 573 572 573 572 573 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 le) (WAD Cy ) (As) (Sb) (a etals) (As) (Sb) g short list)	sheen, etc.):         D.O.         (mg/L)         0.11         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         IDUBED PE         WTPH-G) (NWTP         S) (TSS) (B         4) (Total Kie         anide) (Free         Ba) (Be) (Ca         () (Ba) (Be) (Ca	CLEAR, CC pH 6.99 7.00 7.01 7.01 7.01 7.00 <b>R BOTTLE</b> NWTPH-Gx) PH-Dx) (TPH OD) (Turbid dahl Nitroger Cyanide) ) (Cd) (Co)	UORLESS, NO/N           ORP (mV)           -98.4           -98.7           -99.1           -99.4           -99.4           -98.9           TYPE (Circle a)           0 (BTEX)           H-HCID) (8081)           dity) (Alkalinity)           0) (NH3) (NO3)           (Cr) (Cu) (Fe)	Turbidity (NTU)           #DIV/0!           plicable or write n           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	(ft) on-standard an ease) 1) (SO4) (NO Ti) (Ag) (Se) (	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR

Signature: JHA Date: P:\8888 - Boeing Renton\02 Data Management\2018\3Q2018\field data\Landau Files\AOC-90\_8.13.18\_JHA.xlsx



Project Name	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/ 15 /2018@	750		
Sample Num	ber:	RGW259S-	180815		Weather:	70s smoky			
Landau Repr	esentative:	SRB							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Condition	n:	Secure (YES)	)	Damaged (N	0)	Describe:			
DTW Before I	Purging (ft)	5.65	Time:	715	Flow through cel	l vol.	_	GW Meter No.(s	heron 3
Begin Purge:	Date/Time:	8/15 /2018	720	End Purge:	Date/Time:	8/15 /2018 @	735	Gallons Purged:	0.25
Purge water di	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time			on of Parame			dings within the fo		>/= 1 flow	Obser various
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
723	18.2	179.2	2.16	6.40	96.8	low	6.11		
726	18.5	188.8	1.59	6.30	104.5		6.01		
729	18.5	189.2	1.57	6.31	104.5		6.01		
732	18.3	191.7	1.48	6.32	105.2		6.01		
								·	
							·		
							·		
							·		
SAMPLE CO									
Sample Collec			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee		PVC	Teflon	Polyethylene	D Other	Dedicated	
Decon Proced	ure:	Alconox Was	_	Tap Rinse	DI Water	Dedicated			
(By Numerica					ц <u>ц</u>				
	i Oracij	Other							
Sample Descri	,		sheen, etc.):	slightly GRA	Y AND TURBID	WITH PARTICU	LATES NO/NS		
	iption (color, t	urbidity, odor,							
Sample Descri Replicate	iption (color, t	Cond.	D.O.	slightly GRA pH	ORP	Turbidity	DTW	Ferrous iron (Fe II)	Comments/ Observations
Replicate	iption (color, t Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)			Ferrous iron (Fe II)	Comments/ Observations
Replicate	iption (color, t Temp (°F/°C) 18.3	Cond. (uS/cm) 192.1	D.O. (mg/L) 1.39	<b>рН</b> 6.32	ORP (mV) 105.5	Turbidity	DTW		
Replicate 1 2	iption (color, t <b>Temp</b> (°F/°C) <u>18.3</u> <u>18.3</u>	Cond. (uS/cm) 	D.O. (mg/L) 1.39 1.39	<b>pH</b> 6.32 6.31	ORP (mV) 	Turbidity	DTW		
Replicate 1 2 3	iption (color, t Temp (°F/°C) 18.3 18.3 18.3	Cond. (uS/cm) 192.1 192.4 192.6	D.O. (mg/L) 1.39 1.39 1.35	рН 6.32 6.31 6.31	ORP (mV) 105.5 105.7 105.9	Turbidity	DTW		
Replicate 1 2	iption (color, t <b>Temp</b> (°F/°C) <u>18.3</u> <u>18.3</u>	Cond. (uS/cm) 	D.O. (mg/L) 1.39 1.39	<b>pH</b> 6.32 6.31	ORP (mV) 	Turbidity	DTW		
Replicate 1 2 3	iption (color, t Temp (°F/°C) 18.3 18.3 18.3	Cond. (uS/cm) 192.1 192.4 192.6	D.O. (mg/L) 1.39 1.39 1.35	рН 6.32 6.31 6.31	ORP (mV) 105.5 105.7 105.9	Turbidity	DTW		
Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 18.3 18.3 18.3 18.3 18.3 18.3	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5	D.O. (mg/L) 1.39 1.39 1.35 1.33 1.37	<b>pH</b> 6.32 6.31 6.31 6.31 6.31	ORP (mV) 105.5 105.7 105.7 105.7 105.7	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	iption (color, t Temp (°F/°C) 18.3 18.3 18.3 18.3 18.3 18.3 TYPICAL A	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5	D.O. (mg/L) 1.39 1.35 1.33 1.33 1.37 LOWED PE	pH 6.32 6.31 6.31 6.31 6.31 8.80TTLE	ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap	Turbidity (NTU) 	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH	D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 -D) (NWTP	pH 6.32 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH	ORP (mV) 105.5 105.7 105.9 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N MH) (NWTPH Ictivity) (TDS	D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (B	pH 6.32 6.31 6.31 6.31 6.31 8.80TTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid	ORP (mV) 105.5 105.7 105.9 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp           (°F/°C)           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           19.0           10.0           10.0           10.0	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4	D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiee	pH <u>6.32</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>6.31</u> <u>7.111111111111111111111111111111111111</u>	ORP (mV) 105.5 105.7 105.9 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! plicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp           (°F/°C)           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           (200)           (200)           (PA)           (COD)           (Total Cyanid)	Cond. (uS/cm) 192.1 192.4 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N XH) (NWTPH Ictivity) (TDS C) (Total PO4 e) (WAD Cyst	D.O. (mg/L) 1.39 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 -D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free	pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid dahl Nitrogen) Cyanide)	ORP (mV) 105.5 105.7 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr           (HCO3/CO3) (C           NO2)	DTW (ft)	(Fe II)	Observations Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp           (°F/°C)           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           19.4           10.1           10.2	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya 0) (As) (Sb) (F	D.O. (mg/L) 1.39 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (I -D) (NWTP ) (TSS) (B0 ) (Total Kiec anide) (Free Ba) (Be) (Ca	pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 18.3 18.3 18.3 18.3 18.3 18.3 TYPICAL A (8260) (8010 (8270D) (PA (9H) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS 0) (Total PO4 e) (WAD Cya 0) (As) (Sb) (R etals) (As) (Sb)	D.O. (mg/L) 1.39 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (I -D) (NWTP ) (TSS) (B0 ) (Total Kiec anide) (Free Ba) (Be) (Ca	pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS 0) (Total PO4 e) (WAD Cya 0) (As) (Sb) (R etals) (As) (Sb)	D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	iption (color, t Temp (°F/°C) 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	iption (color, t Temp (°F/°C) 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           19.0           10.0           10.0           10.0           10.0 </td <td>Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb)</td> <td>D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca</td> <td>pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)</td> <td>ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I</td> <td>Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil &amp; Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N</td> <td>DTW (ft)</td> <td>(Fe II)</td> <td>Observations</td>	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate         1         2         3         4         Average:         QUANTITY         3         1         1         1         1         1         1         1         1         1         1         1         1         1	Temp (°F/°C)           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           19.0           10.0           10.0           10.0           10.0 </td <td>Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb)</td> <td>D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca</td> <td>pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)</td> <td>ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I</td> <td>Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil &amp; Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N</td> <td>DTW (ft)</td> <td>(Fe II)</td> <td>Observations</td>	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:  QUANTITY 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp (°F/°C)           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           18.3           19.0           10.0           10.0           10.0           10.0 </td <td>Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb)</td> <td>D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca</td> <td>pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)</td> <td>ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I</td> <td>Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil &amp; Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N</td> <td>DTW (ft)</td> <td>(Fe II)</td> <td>Observations</td>	Cond. (uS/cm) 192.1 192.4 192.6 192.9 192.5 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 e) (WAD Cya b) (As) (Sb) (H etals) (As) (Sb)	D.O. (mg/L) 1.39 1.35 1.33 1.37 LOWED PE WTPH-G) (1 (-D) (NWTP ) (TSS) (Be ) (Total Kiece nnide) (Free Ba) (Be) (Ca ) (Ba) (Be) (Ca	pH 6.32 6.31 6.31 6.31 6.31 6.31 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbid Jahl Nitrogen) Cyanide) ) (Cd) (Co)	ORP (mV) 105.5 105.7 105.7 105.7 105.7 TYPE (Circle ap (BTEX) I-HCID) (8081) ity) (Alkalinity) ) (NH3) (NO3/1 (Cr) (Cu) (Fe) (I	Turbidity (NTU)           #DIV/0!           plicable or write r           (8141) (Oil & Gr (HCO3/CO3) (C           NO2)           Pb) (Mg) (Mn) (N	DTW (ft)	(Fe II)	Observations



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Quarterly A	ugust 2018		Date/Time:	8/15 /2018@	753		
Sample Nun	nber:	RGW260S-	-		Weather:	HAZY			
Landau Rep	resentative:	CEB							
WATER LEV	EL/WELL/P	URGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	0)	Describe:			
DTW Before	Purging (ft)	5.8	Time:	721	Flow through ce	l <u>l vol.</u>		GW Meter No.(	s 1
Begin Purge:	Date/Time:	8/15 /2018	723	End Purge:	Date/Time:	8/ 15 /2018 @	738	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	$(^{\circ}F/^{\circ}C)$	(uS/cm)	(mg/L)	4	(mV)	(NTU)	(ft)	Volume (gal) >/= 1 flow	Observations
	Purge Goa +/- 3%	iis: Stabiizatio +/- 3%		ters for three +/- 0.1 units	e consecutive rea +/- 10 mV	dings within the fo +/- 10%	< 0.3  ft	>/= 1 now through cell	
726	18.2	287.1	0.42	5.95	82.6		5.85		
729	18.7	291.1	0.36	6.06	77.9		5.85		
732		292.2	0.37	6.09	76.7		5.86		
735	18.9	293.6	0.38	6.16	73.9				
SAMPLE CO	LLECTION I	DATA							-
Sample Colle			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Wa	sh 🗖	Tap Rinse	DI Water	Dedicated		<del>7</del> 7	
(By Numerica	l Order)	Other			423	<b>→X</b>			
Sample Descr	iption (color,	turbidity, odor	, sheen, etc.):	CLEAR CO	LORLESS NO/N	S			
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1		<b>`</b>		( 17		(110)	(11)	(ren)	Observations
1	18.9	293.7	0.40	6.17	73.4				
2	18.9	293.8	0.40	6.17	73.2				
3	18.9	293.7	0.38	6.18	73.0				
4	18.9	294.0	0.37	6.18	72.8				
Average:	18.9	293.8	0.39	6.18	73.1	#DIV/0!			
		NAT VOIC AT		D DOTTI F	TYPE (Charles and				
QUANTITY 3		$\frac{(NALYSISA)}{(NALYSIS)} (N$				oplicable or write i	ion-standard af	WA	OR 🗆
	· / · ·	/ . / .				(8141) (Oil & G	rease)	WA 🗆	OR
						(HCO3/CO3) (0			
1					a) (NH3) (NO3)			<i>(</i> (() <u>)</u> ) (1)	
		le) (WAD Cy							
	(Total Metals	) (As) (Sb) (	Ba) (Be) (Ca	(Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (	$\Gamma$ l) (V) (Zn) (Hg	g) (K) (Na)
	(Dissolved M	etals) (As) (St	b) (Ba) (Be) (C	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P	b) (Mg) (Mn) (Ni) (	Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (K)	Na) (Hardness) (Silic
	VOC (Boein								
	Methane Eth	ane Ethene A	cetylene						
	ļ								
	- 41								
	others								
	nple No(s):								

Comments:

Signature: CEB



# Appendix C





Memo

To:	John Long, Project Manager	Project:	0088880100.2018
From:	Crystal Thimsen	C:	Project File
Tel:	(206) 342-1760		
Fax:	(206) 342-1761		
Date:	September 26, 2018		
Subject:	Summary Data Quality Review August 2018 Boeing Renton Groundwate SWMU-168 ARI Work Order Number: 18H0177	er Sampling	

This memo presents the summary data quality review of three primary groundwater samples and one trip blank sample collected on August 13, 2018. The samples were submitted to Analytical Resources Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology. The samples were analyzed for volatile organic compounds (VOCs) (vinyl chloride) by U.S. Environmental Protection Agency (EPA) Method 8260C with selected ion monitoring (SIM).

Sample ID	Laboratory Sample ID	Requested Analyses
RGW231S-180813	18H0177-01	vinyl chloride
RGW230I-180813	18H0177-02	vinyl chloride
RGW229S-180813	18H0177-03	vinyl chloride
Trip Blank	18H0177-04	vinyl chloride

The samples and the analyses conducted on the samples are listed below.

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA quidance documents (EPA, 2014).

ARI received the samples on August 14, 2018. The temperature of the cooler was recorded upon receipt and was below the maximum acceptable temperature of 6 degrees Celsius (°C).

### **Organic analyses**

Samples were analyzed for vinyl chloride. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable



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- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable

Extra volume was not submitted for analysis of MS/MSD samples. The project frequency requirement was achieved with MS/MSD analysis conducted at other sites included in this sampling event.

6. Field Duplicates – Acceptable

Field duplicates were not collected at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event.

7. Reporting Limits and Laboratory Flags – Acceptable

The vinyl chloride result for sample RGW230I-180813 was flagged with an "M" by the laboratory to indicate an estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. The result is reported as estimated and flagged with a "J."

#### **Overall assessment of data**

The table below summarizes the data assessment. The completeness of ARI work order number 18H0177 is 100 percent. The usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits.

Sample ID	Qualified Analyte	Qualified Result (ng/L)	Qualifier Reason
RGW231S-180813	none		
RGW230I-180813	vinyl chloride	140 J	flagged "M" by laboratory
RGW229S-180813	none		
Trip Blank	none		

**Abbreviations** 

J = the value is an estimate

M = the value is estimated but with low spectral match parameters

ng/L = nanograms per liter

### References

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.
- U.S. Environmental Protection Agency (EPA), 2014, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.

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#### Memo

To:	John Long, Project Manager	Project:	0088880100.2018
From:	Crystal Thimsen	CC:	Project File
Tel:	(206) 342-1760		
Fax:	(206) 342-1761		
Date:	October 3, 2018		
Subject:	Summary Data Quality Review August 2018 Boeing Renton Groundwate SWMU-172/174	er Sampling	

This memo presents the summary data quality review of 11 primary groundwater samples, one groundwater field duplicate, and one trip blank sample collected on August 13, 2018. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology. The samples were analyzed for the following:

- Volatile organic compounds (VOCs) (cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride) by EPA Method 8260C with selected ion monitoring (SIM);
- Total organic carbon (TOC) by Standard Method (SM) 5310 B-00; and
- Total metals (arsenic, copper, and lead) by EPA Method 6020A.

ARI Work Order Number: 18H0193

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGWDup1-180813	18H0193-01	all
RGW232S-180813	18H0193-02	all
RGW234S-180813	18H0193-03	all
RGW236S-180813	18H0193-04	all
RGW233I-180813	18H0193-05	all
RGW235I-180813	18H0193-06	all
RGW172S-180813	18H0193-07	all
RGW152S-180813	18H0193-08	all
RGW081S-180813	18H0193-09	all
RGW226S-180813	18H0193-10	all
RGW173S-180813	18H0193-11	all
RGW153S-180813	18H0193-12	all
Trip Blank	18H0193-13	VOCs

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Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA guidance documents (EPA, 2014a and b).

ARI received the samples on August 15, 2018. The temperatures of the coolers were recorded upon receipt and were below the maximum acceptable temperature of 6 degrees Celsius (°C). Bubbles were observed in:

- One of three vials submitted for sample RGWDup1-180813,
- One of three vials submitted for sample RGW232S-180813,
- Three of nine vials submitted for sample RGW233I-180813,
- Two out of three vials submitted for sample RGW172S-180813,
- One of three vials submitted for sample RGW152S-180813,
- Three of three vials submitted for sample RGW081S-180813,
- Three of three vials submitted for sample RGW226S-180813,
- One of three vials submitted for sample RGW153S-180813, and
- One of two vials submitted for the trip blank.

The laboratory proceeded with analysis using unaffected or the least affected vials, and sample results are not qualified.

#### **Organic analyses**

Samples were analyzed for VOCs. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable
- 6. Field Duplicates Acceptable

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The project-specific control limit for field duplicate relative percent differences (RPDs) is 30 percent. The field duplicate RPDs were within the control limits.



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Sample ID/ Field Duplicate ID	Analyte	Primary Result (µg/L)	Duplicate Result (µg/L)	Reporting Limit (µg/L)	RPD (%)
	vinyl chloride	0.187	0.178	0.020	5
RGW152-180813/	cis-1,2-dichloroethene	0.981	0.991	0.020	1
RGWDup1-180813	trichloroethene	0.833	0.827	0.020	1
	tetrachloroethene	1.090	1.060	0.020	3

<u>Notes</u>

µg/L = micrograms per liter

RPD= relative percent difference

7. Reporting Limits and Laboratory Flags – Acceptable except as noted

The laboratory flagged the vinyl chloride results in samples RGWDup1-180813, RGW232S-180813, RGW234S-180813, RGW152S-180813, RGW226S-180813, RGW173S-180813, and RGW153S-180813 with an "M" to indicate an estimated value for the analyte was detected and confirmed by an analyst but with low spectral match parameters. The affected results are qualified as estimated and flagged with a "J."

### **Inorganic** analyses

Samples were analyzed for total metals and TOC. Laboratory data were evaluated for the following parameters:

1. Preservation and Holding Times – Acceptable except as noted:

Bottles submitted for metals analyses for samples RGWDup1-180813 and RGW152S-180813 were not preserved to a pH of <2. The laboratory added additional preservative and proceeded with analysis.

- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS/MSD Acceptable
- 5. Laboratory Duplicates Acceptable
- 6. Field Duplicates Acceptable

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The project-specific control limit for field duplicate RPDs is 30 percent for concentrations greater than five times the reporting limit. The RPD is not calculated for results that are less than five times the reporting limit, as indicated on the table below by "NC." In these cases, the absolute value of the difference between the primary and duplicate result should not exceed the value of the reporting limit. The field duplicate RPDs were within the control limits.



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Sample ID/ Field Duplicate ID	Analyte	Primary Result	Duplicate Result	Reporting Limit	Units	RPD (%)
	ТОС	10,860	10,870	25.0	mg/L	<1
RGW152-180813/	total arsenic	75.7	66.5	4.0	µg/L	13
RGWDup1-180813	total copper	24.1	21.2	10.0	µg/L	NC
	total lead	12.7	11.0	2.0	µg/L	14

<u>Notes</u> mg/L = milligrams per liter NC = not calculated RPD= relative percent difference TOC = total organic carbon

7. Reporting Limits and Laboratory Flags – Acceptable

### **Overall assessment of data**

The table below summarizes the data assessment. The completeness of ARI work order number 18H0193 is 100 percent. The usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits.

Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
RGWDup1-180813	vinyl chloride	178 J	ng/L	flagged "M" by laboratory
RGW232S-180813	vinyl chloride	544 J	ng/L	flagged "M" by laboratory
RGW234S-180813	vinyl chloride	28.2 J	ng/L	flagged "M" by laboratory
RGW236S-180813	none			
RGW233I-180813	none			
RGW235I-180813	none			
RGW172S-180813	none			
RGW152S-180813	vinyl chloride	187 J	ng/L	flagged "M" by laboratory
RGW081S-180813	none			
RGW226S-180813	vinyl chloride	40.9 J	ng/L	flagged "M" by laboratory
RGW173S-180813	vinyl chloride	96.9 J	ng/L	flagged "M" by laboratory
RGW153S-180813	vinyl chloride	248 J	ng/L	flagged "M" by laboratory
Trip Blank	none			

Abbreviations

J = the value is estimated

M = the value is estimated but with low spectral match parameters

ng/L = nanograms per liter



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### References

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.
- U.S. Environmental Protection Agency (EPA), 2014a, U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.
- EPA, 2014b, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.

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Memo

То:	John Long, Project Manager	Project:	0088880100.2018
From:	Crystal Thimsen	C:	Project File
Tel:	(206) 342-1760		
Fax:	(206) 342-1761		
Date:	October 9, 2018		
Subject:	Summary Data Quality Review August 2018 Boeing Renton Groundwate Building 4-78/79 SWMU/AOC Group ARI Work Order Numbers: 18H0176 and	1 3	

This memo presents the summary data quality review of 16 primary groundwater samples, one field duplicate groundwater sample, and one trip blank sample collected on August 13 and 14, 2018. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology (Ecology). The samples were analyzed for the following:

- Volatile organic compounds (VOCs) (limited suite: benzene, vinyl chloride, cis-1,2-dichloroethene, and trichloroethene) by U.S. Environmental Protection Agency (EPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline (TPH-G) by Ecology Method NWTPH Gx; and
- Total organic carbon (TOC) by Standard Method (SM) 5310B-00.

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW-241S-180813	18H0176-01	VOCs and TPH-G
RGW-242I-180813	18H0176-02	VOCs and TPH-G
Trip Blank	18H0176-03	VOCs
RGWDUP	18H0227-01	all
RGW237S-180814	18H0227-02	all
RGW210S-180814	18H0227-03	all
RGW238I-180814	18H0227-04	all
RGW031S-180814	18H0227-05	all
RGW209S-180814	18H0227-06	all
RGW239I-180814	18H0227-07	all
RGW244S-180814	18H0227-08	all
RGW240D-180814	18H0227-09	all



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Sample ID	Laboratory Sample ID	Requested Analyses
RGW143S-180814	18H0227-10	all
RGW033S-180814	18H0227-11	all
RGW038S-180814	18H0227-12	all
RGW039S-180814	18H0227-13	all
RGW243I-180814	18H0227-14	all
RGW034S-180814	18H0227-15	all
Trip Blank	18H0227-16	VOCs and TPH-G

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in EPA guidelines (EPA, 2014a and b).

ARI received the samples on August 14 and 15, 2018. The temperatures of the coolers were recorded upon receipt and were below the maximum acceptable temperature of 6 degrees Celsius (°C). ARI noted the following upon sample receipt:

• Bubbles were observed in at least one vial for every sample that was submitted. The laboratory proceeded with analysis using unaffected vials if available or the least affected vials, and sample results are not qualified.

#### **Organic analyses**

Samples were analyzed for VOCs and TPH-G. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable except as noted:

<u>VOCs by EPA 8260C</u>: The recoveries for one of three surrogates, 1,2-dichloroethane-d4, was 136 percent, for samples RGW DUP and RGW031S-180814, above the control limits of 80 to 129 percent. The laboratory did not reanalyze the samples. The high surrogate recovery equates to a potential high bias in the sample; therefore, detected analytes are qualified as estimated and flagged with a "J" and non-detected analytes are not qualified.

- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable



#### 6. Field Duplicates - Acceptable

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The relative percent differences (RPDs) for the field duplicate are within the project-specific control limit of 30 percent.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (μg/L)	Duplicate Result (µg/L)	Reporting Limit (µg/L)	RPD (%)
	benzene	3.21	3.11	0.20	3
RGW031S-180814/	cis-1,2-dichloroethene	0.56	0.48	0.20	NC
RGW DUP	vinyl chloride	0.28	0.28	0.20	NC
	TPH-G	1640	1740	100	6

**Abbreviations** 

µg/L = micrograms per liter

NC = not calculated

RPD = relative percent difference

TPH-G = total petroleum hydrocarbons as gasoline

7. Reporting Limits and Laboratory Flags – Acceptable except as noted:

<u>VOCs by EPA 8260C</u>: The laboratory flagged the cis-1,2-dichloroethene results in samples RGW DUP and RGW031S-180814 with an "M" to indicate an estimated value for the analyte was detected and confirmed by an analyst but with low spectral match parameters. The affected results are qualified as estimated and flagged with a "J."

#### **Inorganic** analyses

Samples were analyzed for TOC. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS Acceptable
- 5. Laboratory Duplicates Acceptable
- 6. Field Duplicates Acceptable

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The RPDs are acceptable.



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Sample ID/ Field Duplicate ID	Analyte	Primary Result (mg/L)	Duplicate Result (mg /L)	Reporting Limit (mg /L)	RPD (%)
RGW031S-180814/ RGW DUP	TOC	13.41	14.11	0.50	5

**Abbreviations** 

mg/L = milligrams per liter

RPD = relative percent difference

TOC = total organic carbon

#### 7. Reporting Limits and Laboratory Flags – Acceptable

#### **Overall assessment of data**

The table below summarizes the data assessment. The completeness of ARI work order numbers 18H0176 and 18H0227 is 100 percent. Evaluation of the usefulness of these data is based on EPA guidance documents identified in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits. The data meet the project's data quality objectives.

Sample ID	Qualified Analyte	Qualified Result (µg/L)	Qualifier Reason
RGW-241S-180813	none		
RGW-242I-180813	none		
Trip Blank	none		
RGWDUP	vinyl chloride	0.28 J	surrogate recovery
	cis-1,2-dichloroethene	0.48 J	flagged "M" by lab/surrogate recovery
	benzene	3.11 J	surrogate recovery
RGW237S-180814	none		
RGW210S-180814	none		
RGW238I-180814	none		
RGW031S-180814	vinyl chloride	0.28 J	surrogate recovery
	cis-1,2-dichloroethene	0.56 J	flagged "M" by lab/surrogate recovery
	benzene	3.21 J	surrogate recovery
RGW209S-180814	none		
RGW239I-180814	none		
RGW244S-180814	none		
RGW240D-180814	none		
RGW143S-180814	none		
RGW033S-180814	none		



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Sample ID	Qualified Analyte	Qualified Result (µg/L)	Qualifier Reason
RGW038S-180814	none		
RGW039S-180814	none		
RGW243I-180814	none		
RGW034S-180814	none		
Trip Blank	none		

**Abbreviations** 

 $\mu$ g/L = micrograms per liter

J = the value is an estimate

M = the value is estimated but with low spectral match parameters

### References

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.
- U.S. Environmental Protection Agency (EPA), 2014a, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.
- EPA, 2014b, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.

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Memo

To:	John Long, Project Manager	Project:	0088880100.2018	
From:	Crystal Thimsen	C:	Project File	
Tel:	(206) 342-1760			
Fax:	(206) 342-1761			
Date:	October 4, 2018			
Subject:	Summary Data Quality Review			
	August 2018 Boeing Renton Groundwater Sampling			
	AOC-001 and -002 and AOC-003			

This memo presents the summary data quality review of 15 primary groundwater samples, one field duplicate, and one trip blank sample collected on August 15, 2018. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology.

The samples from AOC-001 and -002 were analyzed for the following:

ARI Work Order Number: 18H0233

- Volatile organic compounds (VOCs) (benzene only reported) by U.S. Environmental Protection Agency (EPA) Method 8260C;
- VOCs (vinyl chloride, 1,1-dichloroethene, trichloroethene, and cis-1,2-dichloroethene) by EPA Method 8260C with selected ion monitoring (SIM); and
- Total organic carbon (TOC) by Standard Method (SM) 5310C.
- Samples from AOC-003 were analyzed for the following:
- VOCs (cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride) by EPA Method 8260C SIM; and
- TOC by SM 5310C.

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGWDUP3-180815	18H0233-01	all AOC-001 and -002 analyses
RGW185S-180815	18H0233-02	all AOC-001 and -002 analyses
RGW194S-180815	18H0233-03	all AOC-001 and -002 analyses
RGW197S-180815	18H0233-04	all AOC-001 and -002 analyses
RGW196D-180815	18H0233-05	all AOC-001 and -002 analyses
RGW195S-180815	18H0233-06	all AOC-001 and -002 analyses
RGW190S-180815	18H0233-07	all AOC-001 and -002 analyses
RGW245S-180815	18H0233-08	all AOC-001 and -002 analyses



Sample ID	Laboratory Sample ID	Requested Analyses	
RGW246S-180815	18H0233-09	all AOC-001 and -002 analyses	
RGW191D-180815	18H0233-10	all AOC-001 and -002 analyses	
RGW193S-180815	18H0233-11	all AOC-001 and -002 analyses	
RGW192S-180815	18H0233-12	all AOC-001 and -002 analyses	
RGW188S-180815	18H0233-13	all AOC-003 analyses	
RGW247S-180815	18H0233-14	all AOC-003 analyses	
RGW248I-180815	18H0233-15	all AOC-003 analyses	
RGW249S-180815	18H0233-16	all AOC-003 analyses	
Trip Blank	18H0233-17	VOCs	

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA guidance documents (EPA, 2014a and b).

ARI received the samples on August 16, 2018. The temperatures of the coolers were recorded upon receipt and were below the maximum acceptable temperature of 6 degrees Celsius (°C). The field team did not put the date on the chain of custody. The laboratory logged the samples according to the date in the sample IDs.

### **Organic analyses**

Samples were analyzed for VOCs. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable
- 6. Field Duplicates Acceptable

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The project-specific control limit for field duplicate



relative percent differences (RPDs) is 30 percent for concentrations greater than five times the reporting limit. The RPD is not calculated for results that are less than five times the reporting limit, as indicated on the table below by "NC." In these cases, the absolute value of the difference between the primary and duplicate result should not exceed the value of the reporting limit. The field duplicate RPDs were within the control limits.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (μg/L)	Duplicate Result (µg/L)	Reporting Limit (µg/L)	RPD (%)
RGW185S-180307/ RGWDUP3-180307	benzene	0.32	0.33	0.20	NC
	vinyl chloride	0.198	0.201	0.020	2
	cis-1,2-dichloroethene	0.217	0.224	0.020	3

<u>Abbreviations</u> µg/L = micrograms per liter NC = not calculated RPD = relative percent difference

7. Reporting Limits and Laboratory Flags – Acceptable

### **Inorganic** analyses

Samples were analyzed for TOC. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS Acceptable
- 5. Laboratory Duplicates Acceptable
- 6. Field Duplicates Acceptable

One field duplicate was submitted for TOC analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The project-specific control limit for field duplicate RPDs is 30 percent for concentrations greater than five times the reporting limit. The field duplicate RPD was within the control limits.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (mg/L)	Duplicate Result (mg/L)	Reporting Limit (mg/L)	RPD (%)
RGW185S-180307/ RGWDUP3-180307	ТОС	11.93	11.75	0.50	2

<u>Abbreviations</u> mg/L = milligrams per liter RPD= relative percent difference TOC = total organic carbon

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7. Reporting Limits and Laboratory Flags – Acceptable

### **Overall assessment of data**

The table below summarizes the data assessment. The completeness of ARI work order number 18H0233is 100 percent. The usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits.

Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
RGWDUP3-180815	none			
RGW185S-180815	none			
RGW194S-180815	none			
RGW197S-180815	none			
RGW196D-180815	none			
RGW195S-180815	none			
RGW190S-180815	none			
RGW245S-180815	none			
RGW246S-180815	none			
RGW191D-180815	none			
RGW193S-180815	none			
RGW192S-180815	none			
RGW188S-180815	none			
RGW247S-180815	none			
RGW248I-180815	none			
RGW249S-180815	none			
Trip Blank	none			

### References

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.
- U.S. Environmental Protection Agency (EPA), 2014a, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.
- EPA, 2014b, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.

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Memo

То:	John Long, Project Manager	Project:	0088880100.2018	
From:	Crystal Thimsen	C:	Project File	
Tel:	(206) 342-1760			
Fax:	(206) 342-1761			
Date:	October 4, 2018			
Subject:	Summary Data Quality Review August 2018 Boeing Renton Groundwater Sampling AOC-004 ARI Work Order Number: 18H0234			

This memo presents the summary data quality review of two primary groundwater samples collected on August 15, 2018. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology. The samples were analyzed for total lead by U.S. Environmental Protection Agency (EPA) Method 6020A.

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW174S-180815	18H0234-01	total lead
RGW250S-180815	18H0234-02	total lead

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA guidance documents (EPA, 2014).

ARI received the samples on August 16, 2018. The temperature of the cooler was recorded upon receipt and was below the maximum acceptable temperature of 6 degrees Celsius (°C).

#### **Inorganic** analyses

Samples were analyzed for total lead. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS/MSD Acceptable



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Additional sample volume was not submitted for MS/MSD analyses with samples collected from this site. MS/MSD results were reported with samples not associated with project samples; therefore, sample results are evaluated based on LCS/LCSD results. Project-specific MS/MSD requirements were met with samples collected at other sites included in this sampling event. The laboratory reported MS/MSD results; but project samples are not evaluated using this data since the spiked sample was not a project sample.

5. Field Duplicates – Acceptable

Field duplicates were not collected at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event.

6. Reporting Limits and Laboratory Flags – Acceptable

#### **Overall assessment of data**

The table below summarizes the data assessment. The completeness of work order number 18H0234 is 100 percent. The usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits.

Sample ID	Qualified Analyte
RGW174S-180815	none
RGW250S-180815	none

#### References

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.
- U.S. Environmental Protection Agency (EPA), 2014, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.

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Memo

To:	John Long, Project Manager	Project:	0088880100.2018
From:	Crystal Thimsen	C:	Project File
Tel:	(206) 342-1760		
Fax:	(206) 342-1761		
Date:	October 4, 2018		
Subject:	Summary Data Quality Review August 2018 Boeing Renton Groundwate AOC-060 ARI Work Order Number: 18H0219	er Sampling	

This memo presents the summary data quality review of nine primary groundwater samples, one field duplicate, and one trip blank sample collected on August 14, 2018. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology. The samples were selectively analyzed for the following:

- Volatile organic compounds (VOCs) (cis-1,2-dichloroethene, trichloroethene, and vinyl chloride) by U.S. Environmental Protection Agency (EPA) Method 8260C with selected ion monitoring (SIM); and
- Total organic carbon (TOC) by Standard Method (SM) 5310 B-00.

Sample ID	Laboratory Sample ID	Requested Analyses
RGWDUP4-180814	18H0219-01	all
RGW147S-180814	18H0219-02	all
RGW014S-180814	18H0219-03	all
RGW012S-180814	18H0219-04	all
RGW254S-180814	18H0219-05	all
RGW149S-180814	18H0219-06	all
RGW150S-180814	18H0219-07	all
RGW252S-180814	18H0219-08	all
RGW009S-180814	18H0219-09	all
RGW253I-180814	18H0219-10	all
Trip Blank	18H0219-11	VOCs

The samples and the analyses conducted on the samples are listed below.

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used



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to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Hold times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in EPA guidelines (EPA, 2014a and b).

Samples were received by ARI on August 15, 2018. The temperatures of the coolers were recorded upon receipt and were below the maximum acceptable temperature of 6° Celsius.

#### **Organic analyses**

Samples were analyzed for VOCs. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable except as noted:
- 5. MS/MSD Acceptable
- 6. Field Duplicates Acceptable

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The project-specific control limit for field duplicate relative percent differences (RPDs) is 30 percent for concentrations greater than five times the reporting limit. The RPD is not calculated for results that are less than five times the reporting limit, as indicated on the table below by "NC." In these cases, the absolute value of the difference between the primary and duplicate result should not exceed the value of the reporting limit. The field duplicate RPDs were within the control limits.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (ng/L)	Duplicate Result (ng/L)	Reporting Limit (ng/L)	RPD (%)
	vinyl chloride	232	228	20.0	2
RGW014S-180814/ RGWDUP4-180814	cis-1,2-dichloroethene	122	122	20.0	0
	trichloroethene	27.3	24.4	20.0	NC

Abbreviations

ng/L = nanograms per liter

NC = not calculated

RPD = relative percent difference

7. Reporting Limits and Laboratory Flags – Acceptable

The laboratory flagged the vinyl chloride results in samples RGWDUP4-180814, RGW147S-180814, RGW014S-180814, RGW012S-180814, RGW254S-180814, RGW149S-180814, and RGW150S-180814 with an "M" to indicate an estimated value for the analyte was detected and



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confirmed by an analyst but with low spectral match parameters. The affected results are qualified as estimated and flagged with a "J."

#### **Inorganic analyses**

Samples were analyzed for TOC. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS Acceptable
- 5. Laboratory Duplicates Acceptable
- 6. Field Duplicates Acceptable

One field duplicate was submitted for TOC analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The TOC RPD exceeds the control limit of 30 percent; therefore, the TOC results for samples RGW014S-180814 and RGWDUP4-180814 are qualified as estimated and flagged with a "J".

Sample ID/ Field Duplicate ID	Analyte	Primary Result (mg/L)	Duplicate Result (mg/L)	Reporting Limit (mg/L)	RPD (%)
RGW014S-180814/ RGWDUP4-180814	ТОС	5.76	3.09	0.50	60

Abbreviations

mg/L = milligrams per liter RPD= relative percent difference TOC = total organic carbon

7. Reporting Limits – Acceptable

#### **Overall assessment of data**

A summary of the data assessment is presented in the table below. The completeness of work order number 18H0219 is 100 percent. Evaluation of the usefulness of these data is based on the EPA guidance document listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits. The data meet the project's data quality objectives.

Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
RGWDUP4-180814	vinyl chloride TOC	228 J 3.09 J	ng/L mg/L	flagged "M" by laboratory field duplicate RPD
RGW147S-180814	vinyl chloride	1,070 J	ng/L	flagged "M" by laboratory
RGW014S-180814	vinyl chloride TOC	232 J 5.76 J	ng/L mg/L	flagged "M" by laboratory field duplicate RPD
RGW012S-180814	vinyl chloride	605 J	ng/L	flagged "M" by laboratory
RGW254S-180814	vinyl chloride	41.8 J	ng/L	flagged "M" by laboratory



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Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
RGW149S-180814	vinyl chloride	39.9 J	ng/L	flagged "M" by laboratory
RGW150S-180814	vinyl chloride	20.3 J	ng/L	flagged "M" by laboratory
RGW252S-180814	none			
RGW009S-180814	none			
RGW253I-180814	none			
Trip Blank	none			

Abbreviations:

J = the value is estimated

M = the value is estimated but with low spectral match parameters

ng/L = nanograms per liter

#### References

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.
- U.S. Environmental Protection Agency (EPA), 2014a, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.
- EPA, 2014b, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.

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Memo

То:	John Long, Project Manager	Project:	0088880100.2018
From:	Crystal Thimsen	C:	Project File
Tel:	(206) 342-1760		
Fax:	(206) 342-1761		
Date:	October 2, 2018		
Subject:	Summary Data Quality Review August 2018 Boeing Renton Groundwate AOC-090 ARI Work Order Number: 18H0191	r Sampling	

This memo summarizes the data quality review of 11 primary groundwater samples, one duplicate sample, and one trip blank sample collected on August 13, 2018. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology (Ecology). The samples were selectively analyzed for the following:

- Volatile organic compounds (VOCs) (acetone, methylene chloride, trans-1,2-dichlorethene, cis-1,2dichloroethene, chloroform, carbon tetrachloride, benzene, toluene, 1,1,2-trichloroethane) by U.S. Environmental Protection Agency (EPA) Method 8260C;
- VOCs (vinyl chloride, 1,1-dichloroethene, trichloroethene, tetrachloroethene, 1,1,2,2tetrachloroethane) by EPA Method 8260C with selected ion monitoring (SIM);
- Total petroleum hydrocarbons in the gasoline range (TPH-G) by Ecology Method NWTPH Gx;
- Total petroleum hydrocarbons in the diesel and motor oil ranges (TPH-D and TPH O) by Ecology Method NWTPH-Dx (with silica gel cleanup); and
- Total organic carbon (TOC) by Standard Method (SM) 5310C.

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGWDup5-180813	18H0191-01	VOCs and TPH
RGW180S-180813	18H0191-02	VOCs and TPH
RGW189S-180813	18H0191-03	all
RGW207S-180813	18H0191-04	VOCs and TPH
RGW175I-180813	18H0191-05	VOCs and TPH
RGW179I-180813	18H0191-06	VOCs and TPH
RGW177I-180813	18H0191-07	VOCs and TPH
RGW176S-180813	18H0191-08	VOCs and TPH
RGW178S-180813	18H0191-09	VOCs and TPH



Sample ID	Laboratory Sample ID	Requested Analyses
RGW208S-180813	18H0191-10	VOCs and TPH
RGW163I-180813	18H0191-11	VOCs and TPH
RGW165I-180813	18H0191-12	VOCs and TPH
Trip Blank	18H0191-13	VOCs and TPH-G

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan Addendum (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS), laboratory duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in EPA guidelines (EPA, 2014a and b).

ARI received the samples on August 14, 2018. The temperatures of the coolers were recorded upon receipt and were less than the maximum acceptable temperature of 6 degrees Celsius (°C). Bubbles were observed in:

- One out of seven vials submitted for sample RGWDup5-180813,
- 13 out of 21 vials submitted for sample RGW189S-180813,
- Four out of seven vials submitted for sample RGW207S-180813,
- Seven out of seven vials submitted for sample RGW175I-180813,
- Five out of seven vials submitted for sample RGW179I-180813,
- One of seven vials submitted for sample RGW177I-180813,
- Six of seven vials submitted for sample RGW176S-180813,
- Five of seven vials submitted for sample RGW208S-180813,
- Five of seven vials submitted for sample RGW163I-180813,
- Six of seven vials submitted for sample RGW165I-180813, and
- Six of seven vials submitted for the trip blank.

The laboratory proceeded with analysis using unaffected or the least affected vials, and sample results are not qualified.

#### **Organic analyses**

Samples were analyzed for VOCs and TPH. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable



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- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable except as noted:
- 5. MS/MSD Acceptable except as noted:

<u>VOCs by EPA 8260C</u>: the recoveries for acetone, methylene chloride, trans-1,2-dichloroethene, cis-1,2-dichloroethene, chloroform, carbon tetrachloride, and toluene were below the control limits in MS/MSD performed with sample RGW189S-180813. The low recoveries equate to a low bias in the sample; therefore, the results for these compounds in sample RGW189S-180813 were qualified as estimated with detections flagged with a "J" and non-detects flagged with a "UJ." Benzene and 1,1,2-trichloroethene also had low recoveries in the MS, but the MSD recoveries were acceptable; therefore, sample results are not qualified.

<u>VOCs by EPA 8260C SIM</u>: the recoveries for 1,1-dichloroethene, trichloroethene, and tetrachloroethene were below the control limits in MS/MSD performed with sample RGW189S-180813. The low recoveries equate to a low bias in the sample; therefore, the results for these compounds in sample RGW189S-180813 were qualified as estimated with detections flagged with a "J" and non-detects flagged with a "UJ." Vinyl chloride and 1,1,2,2-tetrachloroethane also had low recoveries in the MS, but the MSD recoveries were acceptable; therefore, sample results are not qualified.

<u>TPH-D by NWTPH-Dx</u>: the TPH-D recoveries in the MS/MSD performed with sample RGW189S-180813 were 135 and 205 percent, respectively, greater than the control limits of 56 to 120 percent. The high recoveries equate to a potential high bias in the sample; therefore the TPH-D and TPH-O results in sample RGW189S-180813 are qualified as estimated and flagged with a "J."

6. Field Duplicates – Acceptable

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The project-specific control limit for field duplicate relative percent differences (RPDs) is 30 percent for concentrations greater than five times the reporting limit. The RPD is not calculated for results that are less than five times the reporting limit, as indicated on the table below by "NC." In these cases, the absolute value of the difference between the primary and duplicate result should not exceed the value of the reporting limit. The field duplicate RPDs were within the control limits.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (ng/L)	Duplicate Result (ng/L)	Reporting Limit (ng/L)	RPD (%)
RGW180S-180813/ RGWDup5-180813	vinyl chloride	20.0 U	24.3	20	NC

**Abbreviations** 

 $\mu g/L$  = micrograms per liter NC = not calculated

RPD = relative percent difference

7. Reporting Limits and Laboratory Flags – Acceptable

<u>TPH-G by NWTPH-Gx</u>: The initial gasoline range organics result in sample RGW189S-180813 was flagged by the laboratory with an "E" to indicate the result was greater than the calibration range



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of the instrument. The sample was diluted and reanalyzed. The gasoline range organics results is reported from the diluted analysis.

<u>VOCs by EPA 8260C</u>: The methylene chloride results were flagged with a "Q" by the laboratory due to a low response in the continuing calibration. The low response equates to a possible low bias in the samples; therefore, the methylene chloride results were qualified as estimated with detections flagged with a "J" and non-detects flagged with a "UJ." Sample results that were previously qualified were not qualified further.

<u>VOCs by EPA 8260C SIM</u>: The laboratory flagged the vinyl chloride results in samples RGW189S-180813 and RGW207S-180813 with an "M" to indicate an estimated value for the analyte was detected and confirmed by an analyst but with low spectral match parameters. The affected results are qualified as estimated and flagged with a "J."

### **Inorganic** analyses

Samples were analyzed for TOC. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS Acceptable except as noted:

The MS was performed with sample RGW189S-180813 and TOC was not recovered. The sample concentration was four times greater than the spike concentration; therefore, the control limits are not applicable and sample results are not affected.

- 5. Laboratory Duplicates Acceptable
- 6. Field Duplicates

A field duplicate was not collected for TOC analysis at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event.

7. Reporting Limits – Acceptable

#### **Overall assessment of data**

The completeness of ARI work order number 18H0191 is 100 percent. Evaluation of the usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits. The data, as qualified, meet the project's data quality objectives.

A summary of the data quality review is presented in the table below.



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Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
RGWDup5-180813	methylene chloride	1.00 UJ	µg/L	low calibration result
RGW180S-180813	methylene chloride	1.00 UJ	µg/L	low calibration result
RGW189S-180813	acetone	70.4 J	µg/L	MS/MSD recovery
	methylene chloride	10.9 J	µg/L	и
	trans-1,2-dichloroethene	2.00 UJ	µg/L	и
	cis-1,2-dichloroethene	22.3 J	µg/L	и
	chloroform	2.23 J	µg/L	Ш
	carbon tetrachloride	2.00 UJ	µg/L	и
	toluene	21.7 J	µg/L	и
	vinyl chloride	2,090 J	ng/L	flagged "M" by laborator
	1,1-dichloroethene	200 UJ	ng/L	MS/MSD recovery
	trichloroethene	2,380 J	ng/L	u u
	tetrachloroethene	200 UJ	ng/L	u u
	diesel range organics	4.12 J	mg/L	MS/MSD recovery
RGW207S-180813	methylene chloride	1.00 UJ	µg/L	low calibration result
	vinyl chloride	311 J	ng/L	flagged "M" by laborator
RGW175I-180813	methylene chloride	1.00 UJ	µg/L	low calibration result
RGW179I-180813	methylene chloride	1.00 UJ	µg/L	low calibration result
RGW177I-180813	methylene chloride	1.00 UJ	µg/L	low calibration result
	vinyl chloride	30.3 J	ng/L	flagged "M" by laborator
RGW176S-180813	methylene chloride	1.00 UJ	µg/L	low calibration result
RGW178S-180813	methylene chloride	1.00 UJ	µg/L	low calibration result
RGW208S-180813	methylene chloride	1.00 UJ	µg/L	low calibration result
RGW163I-180813	methylene chloride	1.00 UJ	µg/L	low calibration result
RGW165I-180813	methylene chloride	1.00 UJ	µg/L	low calibration result
Trip Blank	methylene chloride	1.00 UJ	µg/L	low calibration result

Abbreviations:

J = the value is estimated

 ${\sf M}$  = the value is estimated but with low spectral match parameters  ${\sf MS/MSD}$  = matrix spike/matrix spike duplicate

ng/L = nanograms per liter

 $\mu$ g/L = micrograms per liter

UJ = not detected at the given estimated reporting limit

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### References

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.
- U.S. Environmental Protection Agency (EPA), 2014a, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.
- EPA, 2014b, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.

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Memo

То:	John Long, Project Manager	Project:	0088880100.2018
From:	Crystal Thimsen	С:	Project File
Tel:	(206) 342-1760		
Fax:	(206) 342-1761		
Date:	October 4, 2018		
Subject:	Summary Data Quality Review August 2018 Boeing Renton Groundwate Bldg. 4-70 ARI Work Order Number: 18H0235	r Sampling	

This memo summarizes the data quality review of two primary groundwater samples and one trip blank sample collected on August 15, 2018. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology. The samples were analyzed for the following:

- Volatile organic compounds (VOCs) (vinyl chloride, cis-1,2-dichloroethene, and trichloroethene) by U.S. Environmental Protection Agency (EPA) Method 8260C; and
- Total organic carbon (TOC) by Standard Method (SM) 5310C.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW259S-180815	18H0235-01	all
RGW260S-180815	18H0235-02	all
Trip Blank	18H0235-03	VOCs

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan Addendum (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS), laboratory duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in EPA guidelines (EPA, 2014).

ARI received the samples on August 16, 2018. The temperature of the cooler was recorded upon receipt and was less than the maximum acceptable temperature of 6 degrees Celsius (°C). The laboratory noted an air bubble in one of five vials submitted for VOCs analysis for sample RGW260S-180815. The laboratory proceeded with analysis using an unaffected vial and results are not impacted or qualified.



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### **Organic analyses**

Samples were analyzed for VOCs. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS Acceptable except as noted:
- MS/MSD Extra volume was not submitted with samples to perform MS/MSD analyses. MS/MSD analyses performed with project samples submitted separately met project frequency requirements.
- 6. Field Duplicates Acceptable

Field duplicates were not collected at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event.

7. Reporting Limits and Laboratory Flags – Acceptable

#### **Overall assessment of data**

The completeness of ARI work order number 18H0235 is 100 percent. Evaluation of the usefulness of these data is based on EPA guidance documents referenced in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits. The data, as qualified, meet the project's data quality objectives.

A summary of the data quality review is presented in the table below.

Sample ID	Qualified Result
RGW259S-180815	none
RGW260S-180815	none
Trip Blank	none

#### References

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.
- U.S. Environmental Protection Agency (EPA), 2014, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.

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# Appendix D

### **APPENDIX D**

## Summary of Remedial Actions at the Boeing Renton Facility July - September 2018

Boeing Renton Site Renton, Washington

Prepared for: The Boeing Company EHS Remediation

Prepared by: CALIBRE Systems, Inc. Project No. K0357000

November 15, 2018

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### 1.0 Introduction

CALIBRE Systems, Inc. (CALIBRE) prepared this Technical Memorandum (Tech Memo) for the Boeing Company to summarize remedial actions implemented at the Boeing Renton Facility in the third quarter of 2018 (between July 1 and September 30, 2018). The ongoing remedial actions include:

- Operation of two soil vapor extraction (SVE) systems located at Solid Waste Management Unit (SWMU) and Area of Concern (AOC) locations designated as SWMU-172/174 and Building 4-78/4-79 SWMU/AOC Group;
- Biological treatment to promote Enhanced Reductive Dechlorination (ERD) of volatile organic compounds (VOCs) in groundwater underway at several AOCs located throughout the Renton Facility, and;
- 3. Anaerobic biodegradation of benzene by nitrate/sulfate injections at the 4-78/79 Building.

CALIBRE completed the work described in this Tech Memo to support remedial activities described in the Engineering Design Report (EDR), (AMEC, 2014) as supplemented by a document describing the remedial approach for *in situ* treatment for benzene in groundwater (CALIBRE 2017).

### 1.1 Facility Location and Background

The Boeing Renton Facility is used for assembly of 737 airplanes and is located at the southern end of Lake Washington in Renton, Washington. The location of the Renton Facility and the locations of SWMU-172/174 and Building 4-78/79 within the Facility are shown on Figure 1-1 (SWMU-172/174 and Building 4-78/79 are the locations where the two SVE systems are operating). The locations of the other AOCs and SWMUs where groundwater treatment is ongoing are also included in Figure 1-1.

### 1.2 Objectives and Organization

The objective for this Tech Memo is to summarize work completed in accordance with the EDR in the third quarter of 2018. This includes operations and monitoring activities for the SVE systems located at Building 4-78/79 and SWMU-172/174 and a summary of the ongoing biological treatment of groundwater at the following areas:

SWMU-172/174 Building 4-78/4-79 SWMU/AOC Group (Building 4-78/79) AOC-001/002 AOC-003 Lot 20/Former Building 10-71 AOC-060 AOC-090 Building 4-70, and Apron A

This Tech Memo is organized as follows:

Section 1 – Introduction and Background Section 2 – SVE System Operation and Monitoring Section 3 – Groundwater Treatment Section 4 – Conclusions and Recommendations Section 5 – References Attachment A – Field Data Sheets Attachment B – Laboratory Report

### 2.0 SVE Systems Operation and Monitoring

SVE systems were installed in the Building 4-78/79 and SWMU-172/174 areas and began operation in April 2015. During the last quarter of 2017 photoionization detector (PID) results from both systems had shown low-level VOC concentrations removed at asymptotically low levels. Given these data, a rebound test for both systems was started on December 15, 2017 and continued for 80 days to March 2018. In May 2018, after an additional 76 day shut-down period, a rebound stabilization test was run for 29 days to test how fast the VOC mass removal rate would decline back down to the prior asymptote levels. At the completion of the rebound stabilization test, soil confirmation samples were collected from both areas in June 2018. The following sections summarize the operating conditions, operational changes, and performance monitoring/evaluation for the SVE systems performed in July - September 2018, following evaluation of the soil confirmation sampling results.

#### 2.1 Building 4-78/4-79 SWMU/AOC Group SVE System

The Building 4-78/79 SVE system consists of 15 vapor extraction wells and a SVE equipment trailer as shown in Figure 2-1. The SVE system is equipped with two vapor-phase granular-activated carbon (GAC) vessels each filled with 1,800 pounds of virgin carbon. The GAC vapor treatment system is configured to run in a lead-lag configuration with vapors from the outlet of the lead vessel passing through the lag vessel. The system also includes two smaller vessels each containing 200 pounds of zeolite impregnated with permanganate to remove and oxidize specific compounds, such as vinyl chloride, that are not efficiently adsorbed by GAC.

Routine maintenance including oil changes, drive-belt tensioning and inspection, inspection of the air filter, and inspection of the moisture separator was completed per the Operations Manual (CALIBRE, 2014). System monitoring includes regular monitoring of total organic vapor concentrations with a calibrated photo-ionization detector (PID).

#### 2.1.1 TO-15 Laboratory Analysis of Vapor Samples

No samples for TO-15 analysis were collected during this operating period. Table 2-1 shows historical samples for TO-15 analysis at the Building 4-78/79 SVE system.

#### 2.1.2 Summary of Operations and Operational Changes

Following the completion of the soil confirmation sampling in this area, the Building 4-78/79 SVE system was turned on to allow air flow from all 15 wells. On July 18, 2018 and August 16, 2018 the system was down at the time of observation. Following the system restart on August 16, some rebound in VOC concentrations was observed at the system influent. The influent was re-screened approximately three hours after re-starting and some drop was observed in the influent (reducing from 3,082 ppbv to 2,500 ppbv). The system was monitored the following day and influent concentrations had continued to decline (2,500 ppbv to 980 ppbv).

On August 20, 2018 an increase in influent concentrations was observed with the PID. There was a strong spray paint odor in the entire area at this time. The PID background readings were 1,500 ppb to 2,500 ppb and the increase in concentrations is believed to be associated with that odor (either from contamination of the sampling equipment with the ambient air or paint vapors passing through the SVE system). Subsequent monitoring events in September and October 2018 show the influent concentrations dropping back to the asymptotic levels observed prior to and during the rebound testing periods.

Table 2-2 shows the PID readings for selected wells in the Building 4-78/79 SVE system. Table 2-3 shows the operational parameters (flow rate and PID readings) and a summary of the mass removal for the SVE system over this quarter. The SVE system for the 4-78/79 area has been shut down with Ecology concurrence.

#### 2.1.3 Mass Removal Estimate

Between April 17, 2015 and September 30, 2018 the Building 4-78/79 SVE system has recovered an estimated 19.3 pounds of VOCs (a mixture of TCE, other CVOCs and fuel related compounds), as shown in Tables 2-1 and 2-3. Approximately 1.86 pounds of VOCs were removed during the current reporting period (third quarter 2018). The mass removal estimate for this quarter includes monitoring periods following system down time with some subsequent rebound in concentrations and after painting was occurring in the general area (where monitoring indicated high background concentrations); these two factors likely lead to an overestimation of mass removal. The cumulative VOC mass removal for the Building 4-78/79 SVE system is shown in Figure 2-2.

#### 2.2 SWMU-172/174 SVE System

The SWMU-172/174 SVE system consists of three vapor extraction wells and a SVE equipment trailer as shown in Figure 2-2. The SVE system is equipped with two vapor-phase GAC vessels, each filled with 1,800 pounds of virgin carbon. The GAC vapor treatment system is configured to run in a lead-lag configuration with vapor from the outlet of the lead vessel passing through the lag vessel. The system also includes two smaller vessels each containing 200 pounds of zeolite impregnated with permanganate.

Routine maintenance including oil changes, drive-belt tensioning and inspection, inspection of the air filter, and inspection of the moisture separator was completed per the Operations Manual (CALIBRE, 2014). System monitoring includes regular monitoring of total organic vapor concentrations with a calibrated photo-ionization detector (PID).

### 2.2.1 TO-15 Laboratory Analysis of Vapor Samples

Two vapor samples were collected from the SWMU-172/174 SVE system for TO-15 analysis on August 30, 2018. The results showed PCE represented approximately 90% of the total VOCs for the SWMU-172/174 SVE system influent and SVE-2 samples. Table 2-4 summarizes the TO-15 detections for the SWMU-172/174 SVE system for 13 TO-15 sampling events<sup>1</sup> that have been implemented since system startup. The laboratory report is included in Attachment B.

### 2.2.2 Summary of Operations and Operational Changes

The soil confirmation samples collected in the previous quarter identified a location between SVE-2 and SVE-3 which still showed elevated PCE levels in soil. On August 16, 2018 the SVE system was adjusted to alter the flushing pattern through this area by using SVE-3 as vent well with continued extraction through SVE-2 and SVE-1. The system was periodically monitored over a 4 hour time the day of the system modification and again the following day to identify any increase in vapor concentration from the operating wells or the system inlet. Vapor concentrations, measured with a PID, showed increases through August 30, 2018 and at that time two samples for TO-15 analysis were collected from the system influent and SVE-2. Table 2-5 shows the PID readings for the wells in the SWMU 172/174 SVE system. Table 2-6 shows an operational summary for the system.

#### 2.2.3 Mass Removal Estimate

Between April 17, 2015 and September 30, 2018 the SMU-172/174 SVE system has recovered an estimated 14.3 pounds of VOCs (primarily tetrachloroethene, PCE), as shown in Table 2-6. Approximately 1.1 pounds of VOCs were removed during the current reporting period (third quarter 2018) with PCE representing approximately 90% of the total VOCs in the TO-15 analysis (Table 2-4). The cumulative VOC mass removal for the SWMU-172/174 SVE system is shown in Figure 2-4.

#### 2.3 Recommended Next Steps for the SVE Systems

During the previous quarter, the rebound testing showed VOC concentrations were reduced to the baseline asymptotic levels within the 30-day rebound stabilization test period. Soil confirmation samples were collected, during the previous quarter, and those samples revealed that cleanup standards for COCs were met at all but one of the 24 samples at the 4-78/79 area. The single sample which exceed cleanup standards for TPH-G was collected from a low permeable silty/clay layer. Historical TO-15 samples from the nearest extraction well to this location showed TPH-G was non-detect in both samples, therefore it is

<sup>&</sup>lt;sup>1</sup> Multiple changes to SVE system operations have been implemented over the period where data are shown. Changes to extraction flow rates by SVE wells are used to maximize the VOC mass removal and the corresponding SVE influent concentration is highly dependent on the flow rate from selected wells.

unlikely that continued SVE operation would impact this layer. The SVE system for the 4-78/79 area has been shut down with Ecology concurrence.

An evaluation of utilities present and potential access for soil excavation near the sample location exceeding cleanup standards was started during this quarter. Utility maps for this area indicate a number of utilities (both active and abandoned) present within a 20' radius of PP-13 (the soil sample location with TPH-G exceedances). These utilities include a 12" water line for fire hydrants, a fresh water line, airline, underground pipe, high pressure steam line, and an abandoned 6" utility line. Characterization work to bound the hydrocarbon impacted area near PP13 is planned and a separate Technical Memorandum will be prepared detailing utility locations and the depths and locations of proposed probe points.

Modifying the SVE system flow at the SWMU-172/174 area showed temporary increases in VOC mass removal from SVE-2 and the system influent (for a period of approximately 30 days). Continued monitoring in September and October 2018 show those increases are starting to drop towards asymptotic conditions. Additional modifications to the operation of this system should be considered to continue increased mass removal in the area of SVE-2. These modifications may include opening SVE-1 as a vent, similar to SVE-3, to focus vapor removal in the area of SVE-2. It may also be beneficial to operate the SVE system in a pulsed mode in order to allow vapor concentrations to rebound followed by running the system for a period of time.

#### 3.0 Ongoing Groundwater Treatment

Groundwater treatment is being implemented at several AOCs/SWMUs at the Renton Facility. The primary remedy being implemented is enhanced reductive dechlorination (ERD) of chlorinated solvents in targeted areas. The ERD treatment involves substrate injection using sucrose as a carbon source to stimulate biological degradation of the chlorinated solvent.

Beginning in late 2017, anaerobic biodegradation of benzene using nitrate and sulfate injections was implemented for a small area at the 4-78/79 Building. A fourth round of nitrate/sulfate injections was performed in July 2018, and groundwater samples were collected from the injection wells and monitoring wells in September 2018. The results of the performance monitoring are presented in Table 3-1 and discussed in the main text of the quarterly report.

Selected wells at the SWMU-172/174, 4-78/79 Building Area, AOC-60, and AOC-90 were amended with sucrose substrate in July 2018, see Table 3-2. Site wide groundwater sampling was conducted as part of the quarterly monitoring program during this reporting period and the results are discussed in the main text of the quarterly report. Table 3-3 presents a summary of those groundwater monitoring results, by area, related to groundwater treatment/ERD implementation, with recommendations for additional substrate injections at selected areas.

#### 4.0 Conclusions and Recommendations

The soil confirmation samples in the previous quarter revealed that cleanup standards for CVOCs were met at all but one of the 24 samples at the 4-78/79 area. The single sample which exceed cleanup standards for TPH-G was collected from a low permeable silty/clay layer. TO-15 samples from the nearest extraction well to this location showed TPH-G was non-detect in both samples, therefore it is unlikely that continued SVE operation will have any impact on this low permeable layer. A separate work plan will be provided to Ecology for review and approval outlining the proposed locations and depths of additional soil sampling (by Geoprobe) around PP13 for evaluation of soil excavation. The 4-78/79 SVE system will be shut down, likely in the following quarter of operation, following Ecology's approval.

SVE operations were modified at the SWMU-172/174 area to increase flushing between extraction wells SVE-2 and SVE-3, based on the elevated PCE detections observed during the soil confirmation sampling event in the previous quarter. Increased mass removal was observed at SVE-2 and the system influent for a period of approximately 30 days at which point concentrations began to drop to previous asymptote levels. It is recommended that SVE operations be continued for this area, with additional modifications to include opening of SVE-1 as a vent (similar to SVE-3) to allow focused vapor removal at SVE-2 or operating the SVE system in a pulsed mode to monitor for any VOC rebound in soil vapor.

Groundwater monitoring will continue according to the EDR, with supplemental VOC and TOC sampling at selected wells. Additional substrate injections were recently completed in July 2018 at selected areas of the SWMU-172/174, Building 4-78/79, AOC-60, and AOC-90 sites for continued ERD treatment and nitrate/sulfate injections for benzene treatment at the Building 4-78/79 area. Additional substrate injections are recommended for AOC-001/002 (once construction activities have been completed in this area), AOC-003, Apron A, and Building 4-70.

All wells monitored at the 4-78/79 building in September 2018 showed benzene concentrations had reduced from May 2018. These positive results indicate continued treatment with similar concentration of reagents used in July 2018 should be considered for this area. Injections would be performed at B78-11, B78-13, B78-17, B78-18, B78-19, B78-20, and B78-21. Performance monitoring data will be collected approximately 30 days after the injection event and will include the same list of wells sampled in the previous performance monitoring events.

#### 5.0 References

AMEC 2014. Draft Engineering Design Report Boeing Renton Cleanup Action Plan Implementation. Prepared by AMEC Environment & Infrastructure, Inc. for The Boeing Company. July 2014.

CALIBRE 2014. Operations and Maintenance Plan for the Renton Cleanup Action Soil Vapor Extraction Systems. Prepared by CALIBRE Systems, Inc. for The Boeing Company, EHS Remediation. July 2014.

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CALIBRE 2017. Bioremediation of Benzene in Groundwater; Building 4-78/79 Area, Boeing Renton Facility Rev. 1. Prepared by CALIBRE Systems, Inc. for The Boeing Company, EHS Remediation. September 2017.

USACE 2002. Engineering and Design - Soil Vapor Extraction and Bioventing. Prepared by US Army Corps of Engineers. EM 1110-1-4001. June 2002.

TABLES

#### Table 2-1 TO-15 Analytical Results - 4-78/79 SVE System

#### SVE System Inlet

SVE System miet		1	1	1		r	1	r	r		1		1			-	1			r		4.2.4				
																						1,2,4-				
			cis-1,2-	trans-1,2-	Vinyl						Freon						Carbon	m,p-		Ethyl		Trimethylbe			Total	
Date	PCE	TCE	DCE	DCE	Chloride	1,1,1-TCA	1,1-DCA	1,1-DCE	Acetone	Benzene	113	Hexane	Pentane	Toluene	TPHg	MEK	Disulfide	Xylene	o-Xylene	Benzene	Chloroform	nzene	Cumene	Styrene	Chlorinated	Total VOCs
4/17/2015(1)	2.9	280	5.2	ND	ND	8.0	ND	ND	ND	ND	98	ND	ND	1.2	ND	21	ND	ND	ND	ND	ND	ND	ND	ND	296	416
5/18/2015	11	800	27	ND	ND	21.0	ND	ND	ND	ND	120	ND	ND	ND	ND	61	ND	ND	ND	ND	ND	ND	ND	ND	859	1,040
10/13/2015	2.7	160	11	ND	ND	2.7	ND	ND	12	ND	48	9.4	ND	ND	1,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	176	1,646
3/18/2016	ND	49	2.5	ND	ND	ND	ND	ND	19	ND	16	6.6	13	2.3	69	ND	ND	ND	ND	ND	ND	ND	ND	ND	52	177
6/30/2016	1.2	100	6.0	ND	2.3	2.2	ND	ND	32	ND	49	ND	ND	ND	ND	ND	7.2	ND	ND	ND	ND	ND	ND	ND	112	200
9/12/2016	1.6	110	20	ND	5.9	2.2	ND	ND	ND	ND	54	26	100	ND	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	140	920
12/14/2016	ND	17	6.3	ND	2.4	ND	ND	ND	ND	ND	18	4.5	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.7	81.2
												-														
4/5/2017	ND	43	3.0	ND	ND	1.7	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47.7	58.7
8/16/2017	1.3	91	8.0	ND	ND	3.1	ND	ND	ND	ND	6.4	ND	ND	7	ND	ND	ND	0.96	ND	ND	ND	ND	ND	ND	103	118
12/8/2017 - Rebound																										
Start	ND	42	2.5	ND	ND	1.3	ND	ND	ND	ND	1.7	1.7	5.2	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45.8	56.3
1/19/2018 - 35-Day																										
60 Minute Sample	ND	68	2.6	ND	2.0	5.8	ND	ND	ND	ND	13	13	26	1.0	280	7.1	ND	ND	ND	ND	ND	ND	ND	ND	78.4	419
	ND	00	2.0	ND	2.0	5.6	ND	ND	ND	ND	15	15	20	1.0	280	7.1	ND	ND	ND	ND	ND	ND	ND	ND	/6.4	419
3/6/2018 - 80-Day 60																										
Min Sample	ND	67	3.2	ND	8.9	7.6	ND	ND	ND	ND	40	44	48	1.0	510	ND	ND	ND	ND	ND	ND	ND	ND	ND	86.7	730
5/22/2018	2.6	260	10	ND	4.6	19	ND	ND	22	ND	50	49	110	2.8	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	296	2,530
6/7/2018	ND	69	3.7	ND	ND	2.1	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	74.8	77.6
6/20/2018	1.3	87	3.7	ND	ND	2.6	ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	94.6	98.0
0/20/2018	1.5	87	3.7	ND	ND	2.0	ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	54.0	50.0
SVE-01																										
																						1,2,4-				
			cis-1,2-	trans-1,2-	Vinyl						Freon						Carbon	m,p-		Ethyl		Trimethylbe			Total	
Date	PCE	TCE	DCE	DCE	Chloride	1,1,1-TCA	1,1-DCA	1,1-DCE	Acetone	Benzene	113	Hexane	Pentane	Toluene	TPHg	MEK	Disulfide	Xylene	o-Xylene	Benzene	Chloroform	nzene	Cumene	Styrene	Chlorinated	Total VOCs
10/13/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	2.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,111
., .,															1											
6/30/2016	ND	1.2	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	12.2
9/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	ND	62	160	1.3	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,037
12/8/2017 - Rebound																										
Start	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	27	2.0	250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	290
5/22/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	83	ND	630	ND	16	ND	ND	ND	ND	ND	1.7	ND	ND	757
6/7/2018																										11
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
6/20/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
SVE-05																										
																						1,2,4-				
			cis-1,2-	trans-1,2-	Vinyl						Freon						Carbon	m,p-		Ethyl		Trimethylbe			Total	
D. L.	PCE	TCE	DCE	DCE	Chloride	1.1.1-TCA	1,1-DCA	1.1-DCE	Acetone		113	Hexane	Pentane	Toluene	TPHg	MEK	Disulfide				Chile and a second	nzene	6	<b>C</b> 1	Chlorinated	Total VOCs
Date										Benzene								Xylene	o-Xylene		Chloroform		Cumene	Styrene		
8/16/2017	2.5	39	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	ND	160	320	ND	ND	4.5	1.4	1.4	ND	ND	ND	ND	41.5	546
SVE-6																										
																						1,2,4-				
			cis-1,2-	trans-1,2-	Vinyl						Freon						Carbon	m,p-		Ethyl		Trimethylbe			Total	
D.1.	PCE	TOP	DCE			1.1.1-TCA	4 4 5 6 4	4.4.005						Television	TOUL	A AFT			- M. I		Chile and a second		6	<b>C</b> 1		Tetelyoce
Date		TCE		DCE	Chloride		1,1-DCA	1,1-DCE	Acetone	Benzene	113	Hexane	Pentane	Toluene	TPHg	MEK	Disulfide	Xylene	o-Xylene	Benzene	Chloroform	nzene	Cumene	Styrene	Chlorinated	Total VOCs
9/12/2016	ND	98	ND	ND	190	ND	ND	ND	ND	ND	6,900	55	360	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	288	7,603
8/16/2017	16	100	4.5	ND	ND	5.4	1.5	ND	ND	ND	75	ND	ND	ND	440	ND	ND	ND	ND	ND	5.0	ND	ND	ND	127	647
12/8/2017 - Rebound		1									1															
Start	5.4	37	ND	ND	ND	2.7	ND	ND	ND	ND	7.2	ND	ND	6.4	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	45	60
1/19/2018 - 35-Day	2.4	5,				~./					1.2			0.7							±14				-13	
				ND				ND			24				ND						4.2					
60 Minute Sample	6.4	52	1.0	ND	ND	4.6	ND	ND	ND	ND	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	64	89
3/6/2018 - 80-Day 60		1	1	1			1				1	1	1			1	1								I	
Min Sample	9.8	67	ND	ND	ND	10	ND	ND	ND	ND	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	87	2,087
			ND	ND	29	28	ND	ND	ND	ND	1,900	350	690	ND	26.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	313	29.253
5/22/2018	36	220			ND	5.9	1.4	ND	ND	ND	65	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	151	218
5/22/2018		220		ND		5.5										ND	ND	ND	ND	ND	3.4	ND	ND			
6/7/2018	20	120	3.3	ND		4.2	4.5	ND	ND																	
				ND ND	ND	4.2	1.5	ND	ND	1.5	57	ND	ND	ND	ND	ND	ND	ND	no	ND	5.4	ND	ND	ND	152	214
6/7/2018 6/20/2018	20	120	3.3			4.2	1.5	ND	ND	1.5	57	ND	ND	ND	ND	ND	ND	ND	110	ND	5.4	ND	ND	ND	152	214
6/7/2018	20	120	3.3			4.2	1.5	ND	ND	1.5	57	ND	ND	ND	ND	ND	ND	ND		ND	3.4	ND	ND	ND	152	214
6/7/2018 6/20/2018	20	120	3.3			4.2	1.5	ND	ND	1.5	57	ND	ND	ND	ND	ND	ND	ND		ND	3.4	ND 1,2,4-	ND	ND	152	214
6/7/2018 6/20/2018	20	120	3.3 2.7	ND	ND	4.2	1.5	ND	ND	1.5		ND	ND	ND	ND	ND					3.4	1,2,4-	ND	ND		214
6/7/2018 6/20/2018 SVE-8	20 24	120 120	3.3 2.7 cis-1,2-	ND trans-1,2-	ND Vinyl						Freon						Carbon	m,p-		Ethyl		1,2,4- Trimethylbe			Total	
6/7/2018 6/20/2018 SVE-8 Date	20 24 PCE	120 120 TCE	3.3 2.7 cis-1,2- DCE	ND trans-1,2- DCE	ND Vinyl Chloride	1,1,1-TCA	1,1-DCA	1,1-DCE	Acetone	Benzene	Freon 113	Hexane	Pentane	Toluene	TPHg	MEK	Carbon Disulfide	m,p- Xylene	o-Xylene	Ethyl Benzene	Chloroform	1,2,4- Trimethylbe nzene	Cumene	Styrene	Total Chlorinated	Total VOCs
6/7/2018 6/20/2018 SVE-8 Date 9/12/2016	20 24 PCE ND	120 120 TCE 4.9	3.3 2.7 cis-1,2- DCE ND	ND trans-1,2- DCE ND	ND Vinyl Chloride ND	1,1,1-TCA ND	1,1-DCA ND	1,1-DCE ND	Acetone 17	Benzene 2.3	Freon 113 3.9	Hexane 290	Pentane ND	Toluene 6.2	TPHg ND	MEK ND	Carbon Disulfide ND	m,p- Xylene ND	o-Xylene ND	Ethyl Benzene ND	Chloroform ND	1,2,4- Trimethylbe nzene ND	Cumene ND	Styrene ND	Total Chlorinated 4.9	Total VOCs 324
6/7/2018 6/20/2018 SVE-8 Date	20 24 PCE	120 120 TCE	3.3 2.7 cis-1,2- DCE	ND trans-1,2- DCE	ND Vinyl Chloride	1,1,1-TCA	1,1-DCA	1,1-DCE	Acetone	Benzene	Freon 113	Hexane	Pentane	Toluene	TPHg	MEK	Carbon Disulfide	m,p- Xylene	o-Xylene	Ethyl Benzene	Chloroform	1,2,4- Trimethylbe nzene	Cumene	Styrene	Total Chlorinated	Total VOCs

#### Table 2-1 TO-15 Analytical Results - 4-78/79 SVE System

#### SVE-10

3VL-10																										
				trans-1,2-							Freon						Carbon	m,p-		Ethyl		1,2,4- Trimethylbe			Total	
Date	PCE	TCE	DCE	DCE	Chloride	1,1,1-TCA	1,1-DCA	1,1-DCE	Acetone	Benzene	113	Hexane	Pentane	Toluene	TPHg	MEK	Disulfide	Xylene	o-Xylene	Benzene	Chloroform	nzene	Cumene	Styrene	Chlorinated	Total VOCs
3/18/2016	ND	250	13	ND	ND	6.9	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	270	286
6/30/2016	1.5	250	17	ND	7.1	6.2	ND	ND	ND	ND	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	282	402
9/12/2016	2.6	320	97	2.1	18	7.9	2.3	1.6	ND	ND	130	ND	ND	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	452	584
12/16/2016	ND	91	95	1.4	28	3.3	1.6	1.4	ND	ND	95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	222	317
4/5/2017	1.4	240	19	ND	ND	10	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	270	290
8/16/2017	2.6	300	42	ND	ND	14	1.4	ND	ND	ND	34	ND	ND	9.5	260	ND	ND	2.9	1.6	ND	ND	1.5	ND	ND	360	670
12/8/2017 - Rebound																										
Start	ND	180	11	ND	ND	6.3	ND	ND	ND	ND	8.9	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	197	207
1/19/2018 - 35-Day																										
60 Minute Sample	1.7	330	13	ND	ND	28	1.2	ND	ND	ND	39	ND	ND	1.4	ND	17	ND	ND	ND	ND	ND	ND	ND	ND	374	431
1/19/2018 - 35-Day																										
180 Minute Sample	1.8	350	15	ND	ND	24	1.3	ND	ND	ND	31	ND	ND	ND	ND	37	ND	ND	ND	ND	ND	ND	ND	ND	392	460
3/6/2018 - 80-Day 60																										
Min Sample	1.7	330	12	ND	ND	41	1.7	ND	ND	ND	59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	386	445
3/6/2018 - 80-Day																										
180 Min Sample	1.6	300	12	ND	ND	32	ND	ND	ND	ND	41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	346	387
5/22/2018	5.4	720	23	ND	ND	70	ND	ND	ND	ND	77	ND	17	38	480	ND	ND	19	7.6	6.9	ND	ND	ND	11	818	1,475
6/7/2018	1.6	230	14	ND	ND	8.5	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	254	265
6/20/2018	1.9	300	15	ND	ND	11	ND	ND	11	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	328	350

#### SVE-12

																							1,2,4-				
				cis-1,2-	trans-1,2-	Vinyl						Freon						Carbon	m,p-		Ethyl		Trimethylbe			Total	
0	ate	PCE	TCE	DCE	DCE	Chloride	1,1,1-TCA	1,1-DCA	1,1-DCE	Acetone	Benzene	113	Hexane	Pentane	Toluene	TPHg	MEK	Disulfide	Xylene	o-Xylene	Benzene	Chloroform	nzene	Cumene	Styrene	Chlorinated	Total VOCs
. Г	8/16/2017	2.8	320	16	ND	ND	7	ND	ND	ND	ND	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	346	350

Notes:

(1) The TO-15 sample results from this day were considered anomalously low based on multiple PID measurements at the time and subsequent TO-15 samples from system operation

All results are in parts per billion by volume (ppbv).

ND = non-detect DCA = Dichloroethane

DCE = Dichloroethene

MEK = methyl ethyl ketone or 2-butanone

PCE = Tetrachloroethene

TCA = Trichloroethane

TCE = Trichloroethene

Total Chlorinated = the sum of PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA, 1,1-DCA, and 1,1-DCE.

#### Table 2-2 PID Monitoring - 4-78/79 SVE System

Date	Days in Operation Since Startup <sup>1</sup>	SVE-01	SVE-02	SVE-03	SVE-04	SVE-05	SVE-06	SVE-07	SVE-08	SVE-09	SVE-10	SVE-11	SVE-12	SVE-13	SVE-14	SVE-15	VPC Inlet	VPC Mid	VPC Outlet <sup>2</sup>	Notes
																				Site check, system power was turned off; restart
7/18/2018	1,032																			system.
																				System power was turned off; restart system
8/16/2018	1,061																3,082		120	and rescreen 3 hrs after restart.
8/16/2018	1,061																2,500			Rescreen 3 hrs after restart.
8/17/2018	1,062																980			
																				Spray paint odor in SVE area, background range
8/20/2018	1,065	36				1,240	1,360		5,350		2,326		2,864				4,088		0	from 1,500 ppb to 2,500 ppb.
8/30/2018	1,075																3,443			
9/17/2018	1,093	234				188	253		460		683		761				797		0	
10/11/2018	1,117																311		0	
10/19/2018	1,125																422		0	Background PID at 340 ppb.

Notes:

<sup>1</sup> Days in operation since system startup on April 17, 2015.

<sup>2</sup> Concentrations measured are at the low end of the range of concentrations able to be measured by the PID. Data presented should be compared with analytical results presented in Table 2-1

which show no detections of COCs.

All PID results posted are reported in parts per billion by volume (ppbv).

PID values listed are field measurements calibrated to isobutylene that have not been corrected to the ionization potentials of the target compounds

Blank cells - Not all wells were measured with the PID during each sampling event.

#### Table 2-3 VOC Mass Removal Estimate - 4-78/4-79 SVE System

	PID Reading	Corrected Value	System Flow	Cumulative	VOCs removed in Operating Period Between Monitoring	Cumulative VOC Mass Removed Since Start of SVE Operations in April,
Date	(ppbv)	(VOC) (ppbv) <sup>1</sup>	(cfm)	Runtime Hours	Events (lbs)	2015 (lbs)
6/20/2018	79	52	119	19,804	0.04	17.41
7/18/2018		0	119	19,811	0.00	17.41
8/16/2018	3,082	1,798	120	19,852	0.20	17.61
8/16/2018	2,500	1,458	120	19,855	0.01	17.62
8/17/2018	980	572	120	19,880	0.04	17.66
	Not Used - Strong paint					
8/20/2018	odors in area	0	105	19,947	0.00	17.66
8/30/2018	3,443	2,008	105	20,189	1.13	18.79
9/17/2018	797	465	107	20,622	0.48	19.27
10/11/2018	311	181	105	21,190	0.24	19.51
10/19/2018	422	246	98	21,381	0.10	19.61

#### Notes:

PID = photoionization detector

ppbv = parts per billion by volume

cfm = cubic feet per minute

lbs = pounds

A correction factor of 0.58 has been applied to the PID vapor measurement for VOCs based on the mixture of analytes detected in the influent TO-15 analysis on 6/20/18.

TO-15 analysis results showed Trichloroethene made up of 89% of the total VOCs removed in the 6/20/18 results.

#### Table 2-4 TO-15 Analytical Results - SWMU-172/174 SVE System

#### SVE System Inlet

SVE System Inlet			r	r												
																1
			cis-1,2-	trans-1,2-	Vinyl										Total	Total
Date	PCE	TCE	DCE	DCE	Chloride	1,1,1-TCA		Acetone	Toluene	m,p-Xylene	Chloroform		Pentane	Hexane	Chlorinated	VOCs
4/17/2015	1,500	130	120	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	1,763	1,763
10/13/2015	400	31	13	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND	447	447
3/8/2016	82	5.4	3.1	ND	ND	ND	ND	ND	1.1	2.2	ND	ND	ND	ND	91	94
6/30/2016	230	18	10	ND	ND	1.8	ND	11	ND	ND	2.4	ND	ND	ND	260	273
9/12/2016	230	16	8.3	ND	ND	1.9	ND	ND	ND	ND	1.2	ND	ND	ND	256	257
12/14/2016	100	6.2	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	110
5/30/2017 - 30 min	520	220	17	ND	ND	13	2.7	ND	ND	ND	ND	ND	ND	ND	773	773
5/30/2017 - 100 min	530	200	17	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	ND	761	761
5/30/2017 - 225 min	510	130	16	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	668	668
8/16/2017	180	16	7.8	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	206	206
12/8/2017 - Rebound																
Start	99	7.6	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	110
5/22/2018	430	43	13	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	498	498
6/7/2018	160	13	5.4	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	180	180
6/20/2018	170	14	5.7	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	192	192
8/30/2018	110	8.6	3.7	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	132	122
0,50,2010	110	0.0	3.7	110	ND	116	110	114				114	116	114	122	
SVE-2																
							1						1			
			cis-1.2-	trans-1.2-	Vinvl										Total	Total
Date	PCE	TCE	DCE	DCE	Chloride	1,1,1-TCA	1.1-DCA	Acetone	Toluene	m,p-Xylene	Chloroform	o-Xylene	Pentane	Hexane	Chlorinated	VOCs
8/30/2018	180	14	6.1	NA	ND	1,1,1-1CA NA	I,I-DCA	NA	NA	NA	NA	NA	NA	NA	200	200
8/30/2018	180	14	0.1	NA	ND	NA	NA	NA	INA	NA	NA	INA	NA	NA	200	200
SVE-3																
371-3							1				r				r – – – – –	
			cis-1,2-	trans-1,2-	Vinyl										Total	Total
Data	PCE	TOP	DCE			1 1 1 704	1.1.004		Teluene	an a Mulana	Chloreform		Dentere	11		VOCs
Date		TCE	-	DCE	Chloride	1,1,1-TCA	1,1-DCA	Acetone	Toluene	m,p-Xylene	Chloroform	o-Xylene	Pentane	Hexane	Chlorinated	
5/30/2017 - 30 min	540 200	51	18	ND	ND	14	2.6	ND ND	2.2	ND	ND	ND	ND	ND	626	628
5/30/2017 - 100 min		16	6.5	ND	ND	5.5	ND		ND	ND	ND	ND	ND	ND	228	228
8/16/2017	350	30	15	ND	ND	3.5	ND	ND	ND	ND	1.3	ND	ND	ND	399	400
12/8/2017 - Rebound	470	4.2													404	
Start	170	13	5.8	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	191	191
1/19/2018 - 35-Day 60																
Minute Sample	310	30	13	ND	ND	6.9	1.3	ND	ND	ND	1.1	ND	ND	ND	361	362
1/19/2018 - 35-Day 180																1
Minute Sample	310	28	12	ND	ND	7.9	1.1	ND	ND	ND	1.1	ND	ND	ND	359	360
3/6/2018 - 80-Day 60																ł
Min Sample	440	41	15	ND	ND	14	2.2	ND	ND	ND	ND	ND	ND	ND	512	512
3/6/2018 - 80-Day 180																1
Min Sample	410	33	13	ND	ND	13	1.6	ND	ND	ND	ND	ND	ND	ND	471	471
5/22/2018	790	66	22	ND	ND	22	ND	ND	ND	ND	ND	ND	ND	ND	900	900
6/7/2018	280	23	9.6	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	316	316
6/20/2018	310	24	11	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	348	348
																. –
VPC Outlet																I
			cis-1,2-	trans-1,2-	Vinyl						1		1		Total	Total
Date	PCE	TCE	DCE	DCE	Chloride	1,1,1-TCA	1,1-DCA	Acetone	Toluene	m,p-Xylene	Chloroform	o-Xylene	Pentane	Hexane	Chlorinated	VOCs
4/17/2015	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.1	5.1
1/1//2010	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	11
10/13/2015			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND												ND	25.2
10/13/2015 3/8/2016		ND ND			ND	ND	ND	ND	15	1.6	ND	1.2	6.2	1.2	ND	
10/13/2015 3/8/2016 6/30/2016	ND ND	ND	ND	ND			ND ND		-	1.6 ND	ND ND	1.2 ND	6.2 ND	1.2 ND		
10/13/2015 3/8/2016 6/30/2016 9/12/2016	ND ND ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/13/2015 3/8/2016 6/30/2016	ND ND	ND	ND	ND					-							

#### Notes:

All results are in parts per billion by volume (ppbv).

ND = non-detect

NA = not analyzed

DCE = Dichloroethene

PCE = tetrachloroethene

TCE = trichloroethene

Total Chlorinated = the sum of PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA, and 1,1-DCA.

	Days in Operation							
Date	Since Startup <sup>1</sup>	SVE-01	SVE-02	SVE-03	VPC Inlet	VPC Mid	VPC Outlet	Notes
7/18/2018	1,025							Site check, system power was turned off; restart system.
8/16/2018	1,054	50	520	800	470			Took initial readings then modified SVE-3 to operate as a vent.
8/16/2018	1,054	72	517	Vent				
8/16/2018	1,054	0	615	Vent				
8/16/2018	1,054	85	540	Vent	50			
8/16/2018	1,054	245	690	Vent	145			
8/17/2018	1,055	222	690	Vent	292		0	
8/20/2018	1,058	402	1,636	Vent	1,251		0	
8/30/2018	1,068	841	1,850	Vent	1,478		0	TO-15 samples from Influent and SVE-2.
9/17/2018	1,086	183	535	Vent	275		0	
10/11/2018	1,110			Vent	40	0	0	
10/19/2018	1,118			Vent	282		0	

#### Notes:

<sup>1</sup> Days in operation since system startup on April 17, 2015.

Operational change was made on 8/16/18. SVE-03 was opened as a vent well to promote focused flow towards SVE-02.

Blank cells - Not all wells were measured with the PID during each sampling event.

#### Table 2-6 VOC Mass Removal Estimate - SWMU 172/174 SVE System

					VOCs removed in	Cumulative VOC Mass
					Operating Period	Removed Since Start of SVE
	<b>PID Reading</b>	Corrected Value	System Flow	Cumulative	Between Monitoring	Operations in April, 2015
Date	(ppbv)	(PCE) (ppbv) <sup>1</sup>	(cfm)	<b>Runtime Hours</b>	Events (lbs)	(lbs)
6/20/2018	153	88	103	18,451	0.044	13.23
7/18/2018		0	105	18,770	0.071	13.30
8/16/2018	470	269	90	19,438	0.393	13.70
8/16/2018		0	70	19,438	0.000	13.70
8/16/2018		0	70	19,438	0.000	13.70
8/16/2018	50	29	70	19,438	0.000	13.70
8/16/2018	145	83	70	19,438	0.000	13.70
8/17/2018	292	167	77	19,464	0.008	13.70
8/20/2018	1,251	717	77	19,530	0.088	13.79
8/30/2018	1,478	847	77	19,763	0.370	14.16
9/17/2018	275	158	77	20,176	0.122	14.28
10/11/2018	40	23	77	20,713	0.023	14.31
10/19/2018	282	162	70	20,869	0.043	14.35

#### Notes:

PID = photoionization detector

ppbv = parts per billion by volume

cfm = cubic feet per minute

lbs = pounds

<sup>1</sup> A correction factor of 0.57 has been applied to the PID vapor measurement for VOCs based on the mixture of analytes detected in the TO-

15 analysis at the influent sample point from 8/30/18.

TO-15 analysis results showed Tetrachloroethene made up 90% of the total VOCs removed at the influent on 8/30/18.

#### Table 3-1 - Baseline and Performance Monitoring Groundwater Data; 4-78/79 Benzene Treatment Area

		Sample Depth			cis-1,2-				Benzene		Nitrate		Nitrite		Sulfate		
Sample ID	Date	(ft bgs)	TCE (ug/L)		DCE (ug/L)		VC (ug/L)		(ug/L)		(mg-N/L)		(mg-N/L)		(mg/L)		Duplicate Well ID
B78-11-8-113017	11/30/2017	8	0.42		0.98		1.11		9.66		<0.100	U	<0.100	U	1.94		
B78-11-021418	2/14/2018	8	1.16		0.84		1.09		14.8		<0.100	U	<0.100	U	9.22	D	
B78-11-051518	5/15/2018	8	1.86		0.78		1.06		12.6		<0.100	U	<0.100	U	34.1	D	
B78-11-180917	9/17/2018	8	5.01		7.90		3.62		9.20		<0.100	U	<0.100	U	23.4	D	
	44/20/2047	15		1	1.00	-				1	0.405				0.050	r	
B78-13-15-112917	11/29/2017	15	0.24		1.29		2.02		9.92		0.135		<0.100	U U	0.652		
B78-13-021418	2/14/2018	15	<0.2	U	1.78		8.49		4.11		<0.100	U	<0.100	-	1.31	_	
B78-13-051518	5/15/2018	15	<0.2	U U	0.85		0.87		4.94		0.182	U	<0.100	U	4.32	D	
B78-13-180917	9/17/2018	15	<0.2	U	0.61		0.38		3.29		<0.100	U	<0.100	U	0.812		
B78-17-9-100617	10/6/2017	9	<0.2	U	0.17	J	0.33		4.84	1						1	
B78-17-9-100617 B78-17-15-112917	10/6/2017	9 15	<0.2 1.25	-	0.17	1	1.31	$\vdash$	4.84 6.52	-	- <0.100	U	- <0.100	U	- 17.1	D	
B78-17-13-112917 B78-17-021418	2/14/2018	15	2.57	-	1.78	-	1.31	$\vdash$	4.61		<0.100	U	<0.100	U	7.35	D	
B78-17-021418 B78-17-051518	5/15/2018	15	0.91	$\vdash$	1.78	-	0.53	$\vdash$	2.60	$\vdash$	<0.100	U	<0.100	U	8.66	D	
B78-17-031518 B78-17-180917	9/17/2018	15	<0.2	U	0.39	-	<0.2	U	1.37	$\vdash$	<0.100	U	<0.100	U	9.63	D	
B10-11-100911	9/17/2018	15	N0.2	0	0.39		N0.2	0	1.57	<u> </u>	<0.100	0	<0.100	0	9.05	U	
B78-18-8-100617	10/6/2017	8	<0.2	U	0.07	J	0.29		0.72	1	-		-		-		
B78-18-15-112917	11/29/2017	15	<0.2	U	<0.2	U	0.35	м	3.10		<0.100	U	<0.100	U	0.343		
DUP-01-112917	11/29/2017	15	<0.2	U	<0.2	U	0.36		2.96		<0.100	U	<0.100	U	1.68		B78-18-15
B78-18-021418	2/14/2018	15	<0.2	U	<0.2	U	0.24		1.28		<0.100	U	<0.100	U	1.47		5/0 10 15
B78-18-051518	5/15/2018	15	<0.2	U	<0.2	U	0.23		1.68		<0.100	U	<0.100	U	27.6	D	
B78-18-180917	9/17/2018	15	<0.2	U	<0.2	U	<0.2	U	0.89		<0.100	U	<0.100	U	7.28	D	
	0, 11, 1010			-		-		-				-		-		-	
B78-19-9-100617	10/6/2017	9	<0.2	U	0.06	J	0.22		0.69		-		-		-		
B78-19-15-112917	11/29/2017	15	<0.2	U	<0.2	U	0.27	М	0.36		< 0.100	U	<0.100	U	0.255		
B78-19-021418	2/14/2018	15	<0.2	U	<0.2	U	0.21		0.23		<0.100	U	<0.100	U	1.22		
B78-19-051518	5/15/2018	15	<0.2	U	<0.2	U	0.21		0.34		<0.100	U	<0.100	U	22.4	D	
B78-19-180917	9/17/2018	15	<0.2	U	<0.2	U	<0.2	U	<0.2	U	< 0.100	U	<0.100	U	1.91		
B78-20-8-100617	10/6/2017	8	<0.2	U	<0.2	U	0.14	J	8.81		-		-		-		
B78-20-15-113017	11/30/2017	15	0.41		<0.2	U	<0.2	U	25.9		2.93	D	<0.100	U	53.9	D	
B78-20-021418	2/14/2018	15	0.25		0.49	М	<0.2	U	40.0		<0.100	U	<0.100	U	21.1	D	
B78-20-051518	5/15/2018	15	<0.2	U	0.39		0.22		54.2		<0.100	U	<0.100	U	15.5	D	
B78-20-180917	9/17/2018	15	0.24		0.27		0.29		0.98		<0.100	U	<0.100	U	2.39		
		n			1		1		1				0				
B78-21-8-100617	10/6/2017	8	<0.2	U	0.13	J	0.21		1.42		-		-		-		
Dup01-100617	10/6/2017	15	<0.2	U	0.15	J	0.20	J	2.01	L	-		-		-	L	B78-21-8
B78-21-15-112917	11/29/2017	15	<0.2	U	0.31	Μ	0.26		2.27	L	0.101		<0.100	U	4.43	D	
B78-21-021418	2/14/2018	15	<0.2	U	0.24	L	0.30		0.86	L	<0.100	U	<0.100	U	1.60		
B78-21-051518	5/15/2018	15	< 0.2	U	0.27	L	0.27	<u> </u>	1.08	_	<0.100	U	<0.100	U	4.59	D	
B78-21-180917	9/17/2018	15	0.22		0.29		<0.2	U	0.59		<0.100	U	<0.100	U	3.62	D	
CW 2445 12 112017	11/20/2017	12	2.40	1	0.00		F (0		7.07	1	10 100		-0.100		0 75 2	1	
GW-244S-13-112917	11/29/2017	13	3.48	_	8.06		5.68	$\vdash$	7.97	<u> </u>	<0.100	U	<0.100	U	0.753	<u> </u>	
GW-244S-021418	2/14/2018	13	1.01	╞	1.25	<u> </u>	1.22		5.34	-	<0.100	U	<0.100	U	1.25	-	
GW-244S	3/6/2018	13 13	1.26	<u>.</u>	2.00	<u> </u>	1.56		6.86	-	-	U	-	U	-	U	
GW-244S-051518	5/15/2018	13	< 0.2	U U	0.30		0.41		3.89	├	<0.100	U	<0.100	U	<0.100	U	
GW-244S-180917	9/17/2018	13	<0.2	U	0.25		0.38	1	3.74	1	<0.100	υ	<0.100	υ	0.113		

#### Table 3-1 - Baseline and Performance Monitoring Groundwater Data; 4-78/79 Benzene Treatment Area

									-						o. 16. i		
		Sample Depth			cis-1,2-				Benzene		Nitrate		Nitrite		Sulfate		
Sample ID	Date	(ft bgs)	TCE (ug/L)		DCE (ug/L)		VC (ug/L)		(ug/L)		(mg-N/L)		(mg-N/L)		(mg/L)		Duplicate Well ID
GW-031S-23-113017	11/30/2017	23	<0.2	U	<0.2	U	<0.2	U	17.6		<0.100	U	<0.100	U	2.54	D	
GW-031S-021418	2/14/2018	23	<0.2	U	0.45	М	0.49		21.9		<0.100	U	<0.100	U	3.67	D	
DUP-01-021418	2/14/2018	23	<0.2	U	0.46		0.42		21.4		-		-		-		GW-031S
GW-031S	3/6/2018	23	<0.2	U	1.18		<0.2	U	60.3		-		-		-		
GW-031S-051518	5/15/2018	23	0.36		0.40		0.21		2.68		<0.100	U	<0.100	U	2.95	D	
Dup-01-051518	5/15/2018	23	0.32		0.34		0.20		2.64		<0.100	U	<0.100	U	2.87	D	GW-031S
GW-031S-180917	9/17/2018	23	<0.2	U	<0.2	U	0.28		<0.2	U	<0.100	U	<0.100	U	0.499		
Dup-01-180917	9/17/2018	23	<0.2	U	0.21		0.30		<0.2	U	<0.100	U	<0.100	U	0.441		GW-031S

Notes:

U = non-detect

D = dilution

M = Estimated value for a GC/MS analyte detected and confirmed by an analyst but with low spectral match parameters.

#### Table 3-2 - July 2018 Injection Volumes at ERD Wells

		Volume of Solution		Pounds Substrate in the Solution
Area	Injection Well	(gallons)	Brix (°Bx)	(lbs)
SWMU-172/174	B172-01	500	9.0	375
	B172-02	500	9.0	375
	B172-03	500	9.0	375
	B172-04	500	9.0	375
	B172-05	500	9.0	375
	B172-06	500	9.0	375
	B172-07	500	9.0	375
	B172-08	500	9.0	375
	B172-09	500	7.5	313
	B172-10	Well lid rusted to mo	nument	NA
	B172-11	500	7.5	313
	B172-12	500	7.5	313
	B172-13	500	9.0	375
	B172-14	500	9.0	375
3uilding 4-78/79	B78-12	514	7.8	334
	B78-14	516	7.8	336
	B78-15	515	7.8	335
	B78-16	522	7.8	340
AOC-060	GW012S	748	7.5	468
	GW147S	752	7.5	470
AOC-090	IPR3	100	7.5	63
	GW 189S	500	7.5	313
	Total (gal)	10,667	Total (lbs)	7,349

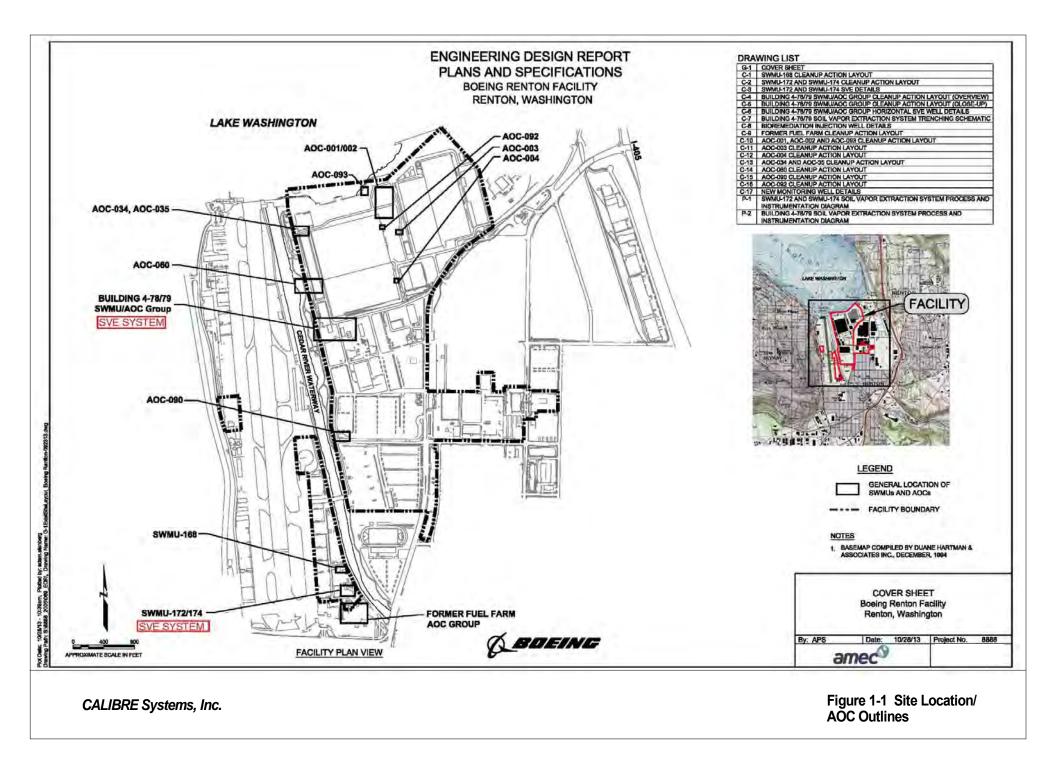
#### Notes:

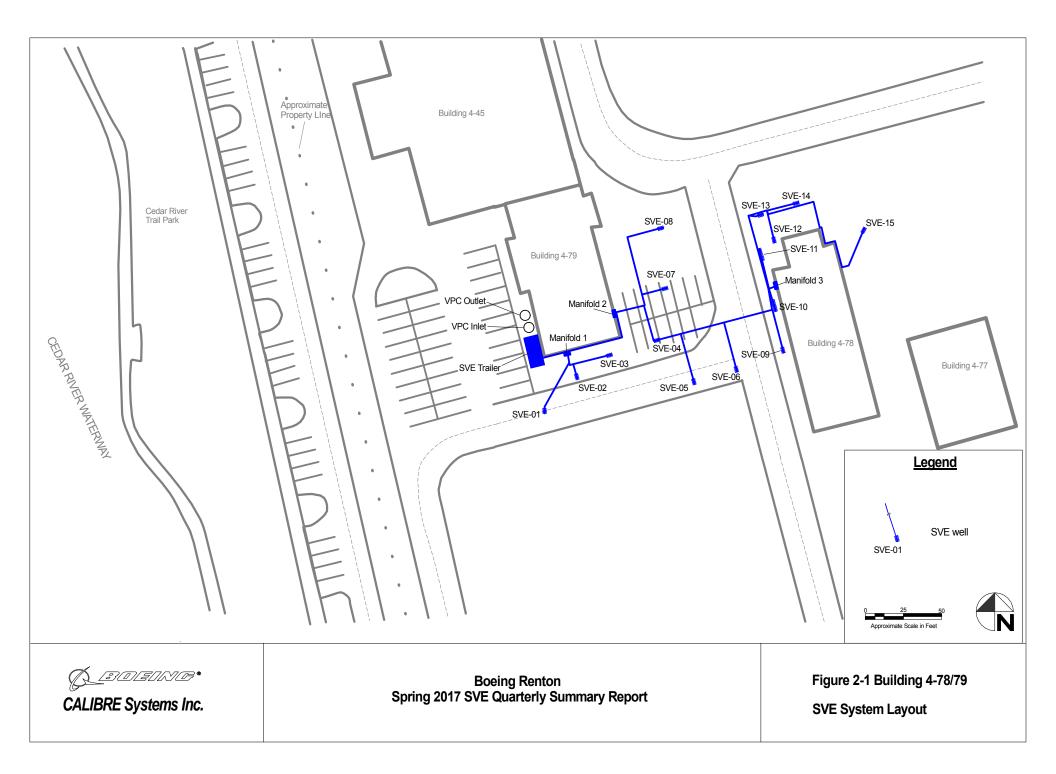
<sup>o</sup>Bx (degrees brix) is a measure of the sugar content in an aqueous solution. One degree Brix is 1 gram of sucrose in 100 grams of solution and represents the strength of the solution as

Table 3-3 Groundwater Monitoring Results Summary and Recommended ERD Treatment

GW Treatment Area	Source and downgradient	CPOC wells	Treatment IWs	ERD Treatment
SWMU-172/174	All detections are less than 1.1 ug/L.	All detections are at 0.5 ug/L or less.	Prior data, North and South IWS showed total CVOCs range from 0.03 ug/L to 6.90 ug/L. TOC near background.	Substrate injection completed in July 2018. Elevated TOC at source are MWs. Continue monitoring
Building 4-78/4-79 SWMU/AOC Group	Most source area MWs are ND or less than 1.0 ug/L. One central well continues to shows significant decrease in total CVOCs from 1,430 ug/L in Nov 2017, 150 ug/L in May 2018, and 8.5 ug/L in August 2018 after substrate injections in January and August 2018. Benzene remains in selected wells/areas (<10 typically). Nitrate/sulfate injected in July 2018.	Six of seven CPOC wells with CVOCs below or just slightly above CULs. Max VC concentration at 0.28 ug/L (CUL is 0.20 ug/L).	Prior data, 4 of 5 wells with low detections where sum of CVOCs are less than 3 ug/L. CVOCs at nearby downgradient MW (GW- 033s) continue to decline (CVOCs at 8.5 ug/L).	Substrate injection completed in July 2018. Substrate injection in selected IWs/areas around GW-033S completed in July 2018.
AOC-001/002	MW near source at 1.2 ug/L; downgradient all detections are less than 2.5 ug/L.	All detections 0.23 ug/L or less.	Prior data, detections at or below 0.30 ug/L.	Inject infiltration galleries at source (IPRA and IPRB) when area is accessible.
AOC-003	All detections are less than 0.50 ug/L.	Detections below 0.60 ug/L.	Prior data, in May 2017 one of four IWs sampled – VC detection less than 0.30 ug/L	Substrate injection to be considered in conjunction with AOC-001/002.
Lot 20 / former 10-71	Prior data, one well with VC at 0.24 ug/L, all other MWs are ND.	-	-	No action
AOC-60	Detections less than 5 ug/L.	All detections less than 0.10 ug/L	-	Substrate injection completed in July 2018. Elevated TOC at treated wells. Continue monitoring
AOC – 90	MW near source at 27 ug/L CVOCs; downgradient wells less than 0.30 ug/L.	All detections are less than 0.40 ug/L.	-	Substrate injection at GW- 189S completed in July 2018. Elevated TOC at treated well. Continue monitoring
Apron A	Prior data, detections of VC range from 0.24 ug/L to 1.63 ug/L.	-	-	Substrate injection to be considered in conjunction with AOC-001/002.
Building 4-70	-	Prior data, CVOCs at 0.70 ug/L and 0.22 ug/L.	-	Substrate injection to be considered in conjunction with AOC-001/002.

FIGURES





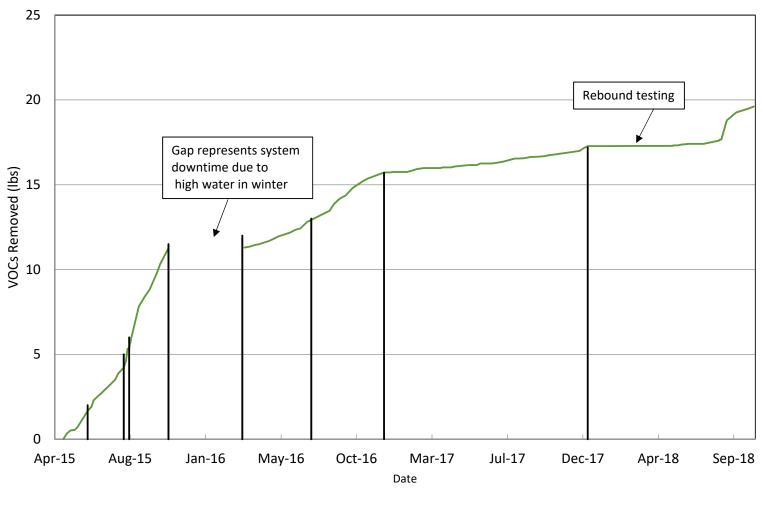
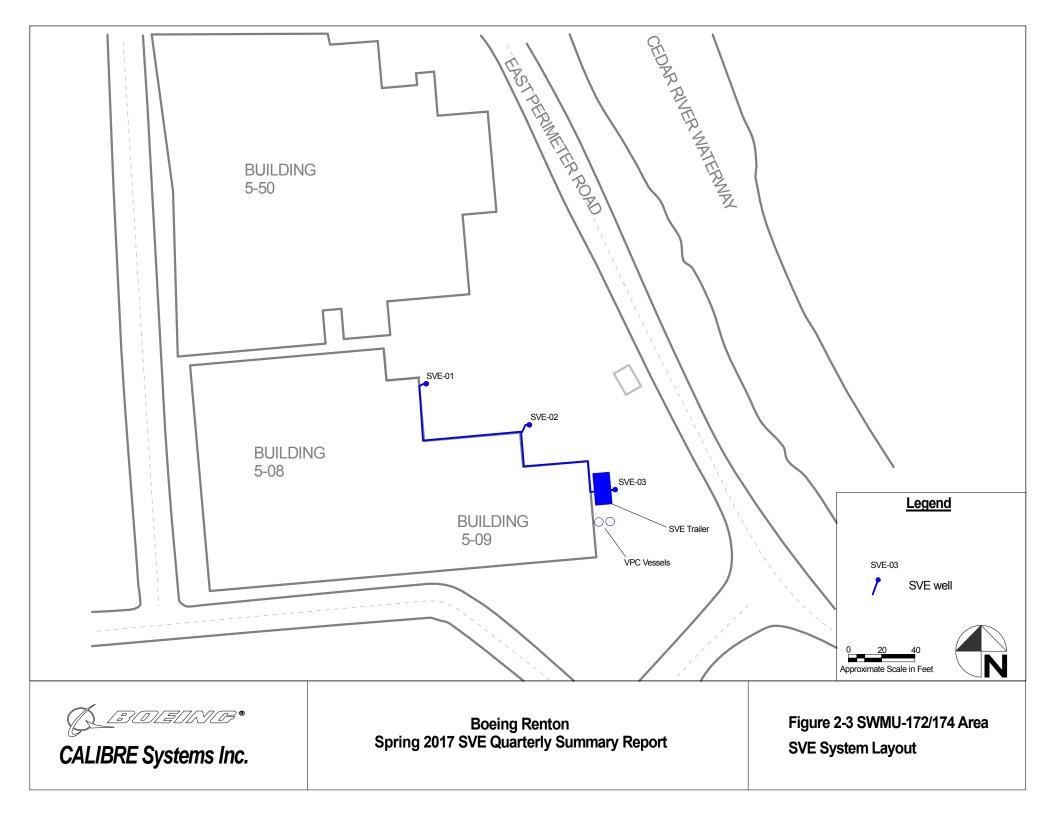


Figure 2-2 Cumulative VOC Mass Removed - 4-78/79 SVE System





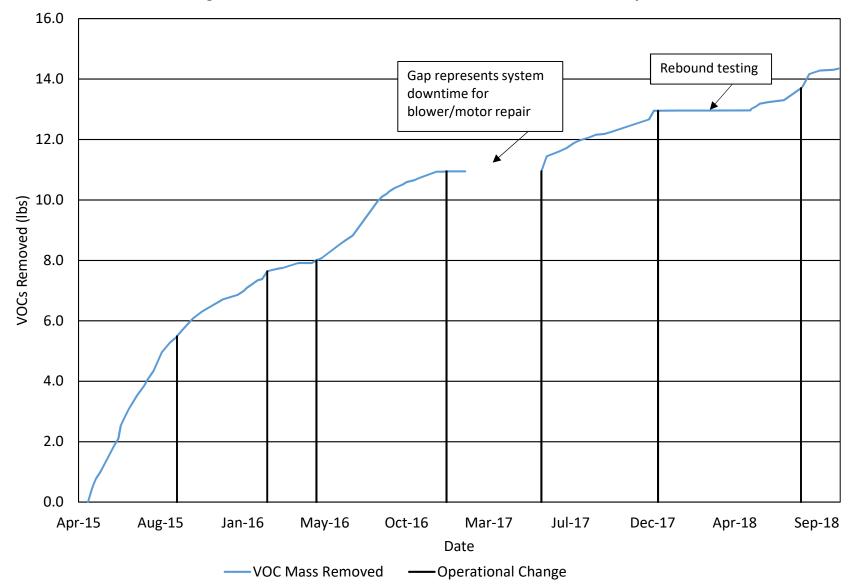


Figure 2-4 Cumulative VOC Mass Removed - SWMU-172/174 SVE System

\*SWMU 172/174 SVE system did not run Winter 2017 due to equipment failure.

Attachment A: Field Log Forms

# Renton Cleanup Action SVE System – SWMU 172/174 Field Operations Log Form Date of last inspection: 6/20/18

Inspection Date: 8/16/18

Periodic systems check: 1) Check flowrate, vacuum, pressure, moisture separator, water storage drums

2) Check each SVE well, VPC inlet, and VPC outlet with PID.

Inspection Time:	1030	Motor	Hours: 4	606.3					(manufact) (	
Blower	Curren	t Value		Took Jaitial Readings. Then closed SUE - 3 value & open						ored
Vacuum gauge	30° Ha	o 50"Hi	Took	Jaitial Re . Openel	sue-2 all	tumon tumon	s , Left	SUE -	as 12.	
Pressure gauge	20 "1420	116"420	Vac	1130	1300	1030	Jack 2"1420	Flow	1	calc Flow 31 Sufm
System flow rate	GOSCEM	TOSCED	Pres	16 "Hed 75 ScFm	16" Had 9550Fm 128°F		13"1420	730stim		
Blower Temperature	114%	123°F	TEMP	125°F	128/	1				
Temp.at lag VPC discharge Other notes: ch										

PID Model:			De	etails:	0 245 /	10,01 ppm		
Calibration time	/ date:		PI	D check	after monitor	ring:		
Sampling Time PID Reading PID Point (1)			PID Rea (2)		Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>
		50ppb	50 PP	6	NR	12SOPM	111	15 SLEM
SVE-02	1017	424 885	520 peb		4"Iteo	16scFm		26 SLFM
SVE-03	1015	551	BOUPTE		3" H20	7 38 SCFM	26"Had	6U sum
VPC Inlet	1012	470pp5	470 pp	Ь				
VPC Midpoint								
VPC Outlet	1010	0726	OPRO					
Other vapor point								

1. Flow rate calculated from the equation  $Flow Rate (cfm) = 12.24 \times \sqrt{differential pressure}$ .

## Questions? Call Justin Neste @ (360) 981-5606

At the Completion of a monitoring event scan monitoring forms and email to Justin Neste: Justin.Neste@calibresys.com

5	Signature	6	ASTIM Nest		Signature	
PID GUEI SUE 2 IN	1036 72975 517975	1100 00 1615 PP5	1130 85770 540pps 50775	1300 235/245ppb 690 /SSUPPb 145ppb	0	

## Renton Cleanup Action SVE System – SWMU 172/174 Field Operations Log Form

Inspection Date: <u>8/17/18</u> Periodic systems check:

Date of last inspection: <u>3/16/18</u>

1) Check flowrate, vacuum, pressure, moisture separator, water storage drums

2) Check each SVE well, VPC inlet, and VPC outlet with PID.

Inspection Time:	1150	Motor Hours: 4631.8	
Blower	Current Value	Other Notes	
Vacuum gauge	48"Hzo		
Pressure gauge	17"1420		
System flow rate	TTSLFM		
Blower Temperature	1.2.8°F		
Temp.at lag VPC discharge		ts, TEFC motor fan, any unusual noise/vibration	

PID Model:		D	etails:	0 prb /10	.ol ppm			
Calibration time	date: 3/1/13	PID check after monitoring:						
Sampling Point	Time	PID Reading (1)	PID Re (2		Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>
SVE-01	1215	185 ppb	222 ppb					
SVE-02	1207	580 ppb	690786					
SVE-03	Vent	500 pts	il.					
VPC Inlet	1205	292 pps	280	PPb				
VPC Midpoint							1	
VPC Outlet	1200	0 pps	0 pps					
Other vapor point								

1. Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential}$  pressure.

Questions? Call Justin Neste @ (360) 981-5606

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Printed Name

Signature

Signature

Date

# Renton Cleanup Action SVE System – SWMU 172/174 Field Operations Log Form

8/20/18 Inspection Date:

Date of last inspection:

8/17/18

Periodic systems check:

1) Check flowrate, vacuum, pressure, moisture separator, water storage drums

2) Check each SVE well, VPC inlet, and VPC outlet with PID.

and and a second b	Oper	Motor Hours: LILOS C
Inspection Time:		Motor Hours: 4697.5
Blower	Current Value	Other Notes
Vacuum gauge	50"1+20	
Pressure gauge	17"1420	
System flow rate	77scam	
Blower Temperature	123°F	
Temp.at lag		elts, TEFC motor fan, any unusual noise/vibration

PID Model: PPBRAE 3000				O PPS	19997 PF	<i><b>o</b>b</i>	
Calibration time	/ date: D l.	0/10 0740	PID che	eck after monitor			
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>
SVE-01	08 05	402 pps	393 175				
SVE-02	0800	1636 pps	1578 pp5				
SVE-03							
VPC Inlet	0755	17.36	1,251				
VPC Midpoint							
VPC Outlet	0750	O pps	Oppb				
Other vapor point							

1. Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential pressure}$ .

Questions? Call Justin Neste @ (360) 981-5606

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## Renton Cleanup Action SVE System - SWMU 172/174 Field Operations Log Form

3/30/18

Date of last inspection:

8/20/18

Inspection Date: Periodic systems check:

1) Check flowrate, vacuum, pressure, moisture separator, water storage drums

2) Check each SVE well, VPC inlet, and VPC outlet with PID.

Inspection Time:	1130	ational Parameters - Monitoring interval is variable. Motor Hours: 4931-3
Blower	Current Value	Other Notes
Vacuum gauge	4 0"420	Collected Summa Samples for TO-15 analysis from
Pressure gauge	16"1120	SUE-IN & SUE-2
System flow rate	TISLEM	
Blower Temperature	126F	
Temp.at lag VPC discharge		ts, TEFC motor fan, any unusual noise/vibration

PID Model:	PPBRIES	603		Details:	0 ppb	1 10.02 ppir	n	
Calibration time	e/ date: 8/30	118 1110		PID check	after monitor	ing:		
Sampling Time PID Reading PID I Point (1)			and the second second	eading 2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>
SVE-01	11 45	841200	763285					
SVE-02	1140	1,850,994	1,740 pp					
SVE-03	Vent			11-				
VPC Inlet	1135	1,478 ,74	1,47	8ppb				
VPC Midpoint		11						
VPC Outlet	1137	0 889	OPPS	2				
Other vapor point								

1. Flow rate calculated from the equation  $Flow Rate (cfm) = 12.24 \times \sqrt{differential pressure}$ .

Questions? Call Justin Neste @ (360) 981-5606

At the Completion of a monitoring event scan monitoring forms and email to Justin Neste: Justin.Neste@calibresys.com

Justin Non Printed Name

8/30/,8

## Renton Cleanup Action SVE System – SWMU 172/174 Field Operations Log Form 8/30/18

9/17/18 Inspection Date: Periodic systems check:

1) Check flowrate, vacuum, pressure, moisture separator, water storage drums

2) Check each SVE well, VPC inlet, and VPC outlet with PID.

Oper	rational Parameters - Monitoring interval is variable.	
1520	Motor Hours: 5343.9	
Current Value	Other Notes	
49"1420		
14 "420		
77SUFM		
120°F		
	Оре 1520 <b>Current Value</b> 49"420 14"420 14"420 715.FM 120°F	Operational Parameters - Monitoring interval is variable.       1520     Motor Hours:     5343.9       Current Value     Other Notes       49"Had       14"Had       1154FM

Date of last inspection:

PID Model:	PPBRAEZ	3000	Details:	0876 /	10.00ppm			
Calibration time		9/17/18	PID che	eck after monitor	ing:		Flow Rate Calculated <sup>1</sup>	
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	B. B. W. M. C. D. C. THEFT.	
SVE-01	1535	183,000	116705					
SVE-02	1530	524 876	535 ppb					
SVE-03	Vent							
VPC Inlet	1522	275 025	271 pps					
VPC Midpoint		.,						
VPC Outlet	1525	ciss 0	0 ppb					
Other vapor point								

Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential}$  pressure. 1.

Frinted Name

Questions? Call Justin Neste @ (360) 981-5606

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## Renton Cleanup Action SVE System – SWMU 172/174 Field Operations Log Form

Inspection Date: 10/1/18

Periodic systems check: 1) Check flowrate, vacuum, pressure, moisture separator, water storage drums

2) Check each SVE well, VPC inlet, and VPC outlet with PID.

		rational Parameters - Monitoring interval is variable.	
Inspection Time:	0745	Motor Hours: 5881.2	
Blower	<b>Current Value</b>	Other Notes	the support of the second s
Vacuum gauge	49 "1+20		
Pressure gauge	14"Hz0		
System flow rate	77 sci=m		
Blower Temperature	108°F		
Temp.at lag VPC discharge		Its, TEFC motor fan, any unusual noise/vibration	

PID Model:	PBRAE	5000	Details:	Details: OPRO/ 10.00 ppm					
Calibration time	And a second sec	11/18 0740	PID chec	k after monitór	ing:				
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>		
SVE-01									
SVE-02									
SVE-03	Ve	nT							
VPC Inlet	0750	40285	.36 pp5						
VPC Midpoint	0752	0 205	opph						
VPC Outlet	0755	o ppb	0 pps						
Other vapor point									

1. Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential}$  pressure.

Questions? Call Justin Neste @ (360) 981-5606

At the Completion of a monitoring event scan monitoring forms and email to Justin Neste: Justin.Neste@calibresys.com

Signature

Justin Nuse

Date of last inspection: 9/17/18

## Renton Cleanup Action SVE System - SWMU 172/174 Field Operations Log Form

Inspection Date:

Periodic systems check:

1) Check flowrate, vacuum, pressure, moisture separator, water storage drums 2) Check each SVE well, VPC inlet, and VPC outlet with PID.

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18

<u>,</u>	E weil, VFC miet, and Oper	rational Paramet	ers - Monitoring interval is variable.	a and a second se
Inspection Time:	0715	Motor Hours:	6036.6	
Blower	Current Value		Other Notes	
Vacuum gauge	55"1120			
Pressure gauge	10"420			
System flow rate	70 SCFM			
Blower Temperature	117°F			
Temp.at lag VPC discharge			an, any unusual noise/vibration	

Date of last inspection:

11/18

10

PID Model:	PPBRAi	23000	Details:	Details: 07P6 / 9,996 7P6					
Calibration time		118 0715	PID chec	k after monitor	ing:				
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>		
SVE-01									
SVE-02									
SVE-03									
VPC Inlet	0722	282 200	265 pps						
VPC Midpoint		ţ							
VPC Outlet	0730	0 295	8,995						
Other vapor point									

1. Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential pressure}$ .

Questions? Call Justin Neste @ (360) 981-5606

At the Completion of a monitoring event scan monitoring forms and email to Justin Neste: Justin.Neste@calibresys.com

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## Renton Cleanup Action SVE System - 4-78/79 Field Operations Log Form

\$110/18 Inspection Date: \_

\_\_\_\_ Date of last inspection: \_\_\_\_\_\_\_\_\_

Periodic systems check:

1) Check flowrate, vacuum, pressure, moisture separator, water storage drums 2) Check each SVE well, VPC inlet, and VPC outlet with PID.

	and a second	ational Parameter	e mernen g		
Inspection Time:	0915	Motor Hours:	3958.6		
Blower	Current Value			Other Notes	
Vacuum gauge	28"Hz0		sues wastern	ed off o wassible.	
Pressure gauge	10"420	PID Jufvent =		1200	
System flow rate	120 SCFM	futwent =	3,082,PP5 120 PP6 (back 5-0	2,500 ppc	
Blower Temperature	88°F		in the force de		
Temp.at lag VPC discharge	eck oil level, drive bel				

PID Model:	76 RAE 30	<i>G</i> i		Details:	O PPS /1	0.01ppm		
Calibration time	e/ date:			PID check	after monitor	ing:		
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off
SVE-01								
SVE-02								
SVE-03								
SVE-04								
SVE-05								
SVE-06								
SVE-07								
SVE-08								
SVE-09								
SVE-10								
SVE-11								
SVE-12								
SVE-13								
SVE-14								
SVE-15								
Other:								

Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off
VPC Inlet	0930	3,08% ppb.		2500 ppb	C 1200			
VPC Midpoint								
VPC Outlet	0930	120 295 (be	ckgronel)					

1. Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential}$  pressure.

## Questions? Call Justin Neste @ (360) 981-5606

At the Completion of a monitoring event scan monitoring forms and e-mail to Justin Neste @ Justin.Neste@calibresys.com

Justin Nush Printed Name and Signature

## Renton Cleanup Action SVE System - 4-78/79 Field Operations Log Form

8/17/18 Inspection Date:

Date of last inspection: \_

8/10/18

Periodic systems check:

Check flowrate, vacuum, pressure, moisture separator, water storage drums
 Check each SVE well, VPC inlet, and VPC outlet with PID.

	Oper	rational Parameters - Monitoring interval is variable.	
Inspection Time:		Motor Hours: 39 \$5.8	
Blower	Current Value	Other Notes	
Vacuum gauge	28"420	Anthent Check	
Pressure gauge	8"1420		
System flow rate	120 50700		
Blower Temperature	128°F		
Temp.at lag VPC discharge			

PID Model:	PPBRI	44 3000		Details:	0 / 10.01	ppm		2.6.4	
Calibration time	/ date:	48 3000 117/18 1130		PID check after monitoring:					
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off	
SVE-01									
SVE-02									
SVE-03									
SVE-04									
SVE-05									
SVE-06									
SVE-07									
SVE-08									
SVE-09									
SVE-10									
SVE-11									
SVE-12									
SVE-13									
SVE-14									
SVE-15									
Other:					1				

Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off
VPC Inlet	1245	980 PPb	980 ppb					
VPC Midpoint								
VPC Outlet								

1. Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential}$  pressure.

Questions? Call Justin Neste @ (360) 981-5606

At the Completion of a monitoring event scan monitoring forms and e-mail to Justin Neste @ Justin.Neste@calibresys.com

Signature

Justin Num Printed Name

word

## Renton Cleanup Action SVE System - 4-78/79 Field Operations Log Form

8/2/18 Inspection Date: \_\_\_\_\_ Periodic systems check:

Check flowrate, vacuum, pressure, moisture separator, water storage drums
 Check each SVE well, VPC inlet, and VPC outlet with PID.

	Oper	rational Parameters - Monitoring interval is variable.
Inspection Time: 0830		Motor Hours: 4053.3
Blower	Current Value	Other Notes
Vacuum gauge	31 "1420	Spray paint ofor around area. Background @ 1,500 - 2500pps.
Pressure gauge	7" [+20	
System flow rate	105scfm	
Blower Temperature	12104	Leftsin for Byzgiokup . Repar @ 1230 to scruch.
Temp.at lag VPC discharge		ts, TEFC motor fan, any unusual noise/vibration

Date of last inspection: \_

3/17/18

PID Model:	PPBRI	7E 3100		Details: 0735 10.00ppm					
Calibration tim	ne/ date:	0/18 0830		PID check after monitoring:					
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off	
SVE-01	250	36704	33pp						
SVE-02			1						
SVE-03								_	
SVE-04									
SVE-05	1255	1,240 205	1,199 pps						
SVE-06	258	1,240 pps 17960 pps	1,324000						
SVE-07									
SVE-08	1305	5,420226	6,310,000						
SVE-09			1						
SVE-10	1310	2,326,286	2,281,23						
SVE-11		, 11							
SVE-12	1312	2,864 226	2,754226						
SVE-13									
SVE-14									
SVE-15						1			
Other:	_								

Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off
VPC Inlet	1243	3,943,00	Hid St ppb					
VPC Midpoint								
VPC Outlet	12uh	\$ 795	8 ppb					

1. Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential}$  pressure.

Questions? Call Justin Neste @ (360) 981-5606

At the Completion of a monitoring event scan monitoring forms and e-mail to Justin Neste @ Justin.Neste@calibresys.com

Justin NUSK

i no Signature

## Renton Cleanup Action SVE System - 4-78/79 Field Operations Log Form

8/20/13 Inspection Date: \_\_\_\_\_\_ Periodic systems check:

Date of last inspection:

5/20/18

Check flowrate, vacuum, pressure, moisture separator, water storage drums
 Check each SVE well, VPC inlet, and VPC outlet with PID.

Lange contract and	Ope	rational Parameters - Monitoring interval is variable.	
Inspection Time:	1115	Motor Hours: 4,295.0	
Blower	<b>Current Value</b>	Other Notes	
Vacuum gauge	31"1+20		
Pressure gauge	7 "1420		
System flow rate	1055crFm		
Blower Temperature	124°F		
Temp.at lag			
Other notes: che	eck oil level, drive be	elts, TEFC motor fan, any unusual noise/vibration	

PID Model:	PPB RAES	2000		Details:	Spph /1	Cice ppm		
Calibration time	/ date:	118 1112		PID check	after monitor	ing:		
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off
SVE-01								
SVE-02								
SVE-03								
SVE-04								
SVE-05								
SVE-06								
SVE-07								
SVE-08			_					
SVE-09								
SVE-10								
SVE-11								
SVE-12								
SVE-13								
SVE-14								
SVE-15								
Other:								

Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off
VPC Inlet	1120	3,443 pp	2907 295					
VPC Midpoint								
VPC Outlet								-

1. Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential}$  pressure.

Questions? Call Justin Neste @ (360) 981-5606

At the Completion of a monitoring event scan monitoring forms and e-mail to Justin Neste @ Justin.Neste@calibresys.com

Justin Reste Printed Name

: and Signature

# Renton Cleanup Action SVE System – 4-78/79 Field Operations Log Form

9/11/18 Inspection Date:

Periodic systems check: Check flowrate, vacuum, pressure, moisture separator, water storage drums
 Check each SVE well, VPC inlet, and VPC outlet with PID.

Oper	rational Parameters - Monitoring interval is variable.	
1430	Motor Hours: 4728.2	
<b>Current Value</b>	Other Notes	
31"420		
\$ "140		
107 SCFM		
12901-		
	Ope 1430 Current Value 31''420 31''420 31''420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1420 1	Operational Parameters - Monitoring Interval is variable.       1430     Motor Hours:     4728.2       Current Value     Other Notes       31 ''420     41' 1400       107 SCFM

Date of last inspection:

8/30/18

PID Model:	PPB	2AE 3000		Details: Oppb/10.00ppm					
Calibration time	1 dates		18	PID check	after monitor	ing:	1		
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off	
SVE-01		234020	230					-	
SVE-02									
SVE-03									
SVE-04									
SVE-05		188 285	154						
SVE-06	2	244 225	253						
SVE-07		1							
SVE-08		460 pp	3-20						
SVE-09		10 11							
SVE-10	6	661 pp	683						
SVE-11									
SVE-12		702 pp/4	761						
SVE-13								-	
SVE-14									
SVE-15									
Other:									

# Renton Cleanup Action SVE System – 4-78/79 Field Operations Log Form

Inspection Date:

10/11/18

Date of last inspection:

9/17/18

Periodic systems check:

1) Check flowrate, vacuum, pressure, moisture separator, water storage drums 2) Check each SVE well, VPC inlet, and VPC outlet with PID.

	Oper	rational Parameters - Monitoring Interval is variable.	
Inspection Time:	0830	Motor Hours: 5246.3	
Blower	<b>Current Value</b>	Other Notes	
Vacuum gauge	35"420		
Pressure gauge	13"1420		
System flow rate	105scFm		
Blower Temperature	120F		
Temp.at lag VPC discharge			
VPC discharge Other notes: che	eck oil level, drive be	Its, TEFC motor fan, any unusual noise/vibration	

PID Model:	TPBRA	JE 3000		Details:		110.00 pp	m	
Calibration time		11/18 0740		PID check	after monitor	ing:		
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off
SVE-01								
SVE-02								
SVE-03	1							
SVE-04								
SVE-05				-				
SVE-06								
SVE-07								
SVE-08								
SVE-09				-				
SVE-10								
SVE-11								
SVE-12								
SVE-13								
SVE-14								
SVE-15								
Other:				-				

Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off
VPC Inlet	0840	311,005	303pp5					
VPC Midpoint								
VPC Outlet	0845	OPPS	* PPb					

1. Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential}$  pressure.

Printed Name

Questions? Call Justin Neste @ (360) 981-5606

At the Completion of a monitoring event scan monitoring forms and e-mail to Justin Neste @ Justin.Neste@calibresys.com

Signatur

# Renton Cleanup Action SVE System – 4-78/79 Field Operations Log Form

10/19/18 Inspection Date:

Periodic systems check: Check flowrate, vacuum, pressure, moisture separator, water storage drums
 Check each SVE well, VPC inlet, and VPC outlet with PID.

2) Check cach ov	Oper	rational Parameters - Monitoring interval is variable.	
Inspection Time:	- 755	Motor Hours: 54869	
Blower	Current Value	Other Notes	
Vacuum gauge	31" 450	Buckground PiD = 340 pps	
Pressure gauge	14"420		
System flow rate	9851FM		
Blower Temperature	12705		
Temp.at lag VPC discharge			
Other notes: ch	eck oil level, drive be	Its, TEFC motor fan, any unusual noise/vibration	

Date of last inspection:

10/11/18

PID Model:	PPBR	AE 3000		Details:	O PY6	19996 7	25	
Calibration time		1/19/18 07		PID check	after monitor	íng:		
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off
SVE-01		1						
SVE-02								
SVE-03								
SVE-04								
SVE-05								
SVE-06								
SVE-07								
SVE-08								
SVE-09								
SVE-10								
SVE-11								
SVE-12								
SVE-13								
SVE-14								
SVE-15								
Other:								

Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off
VPC Inlet	0755	422pps						
VPC Midpoint								
VPC Outlet	0757	OPPB						

1. Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential}$  pressure.

# Questions? Call Justin Neste @ (360) 981-5606

At the Completion of a monitoring event scan monitoring forms and e-mail to Justin Neste @ Justin.Neste@calibresys.com

Justin NUSR Printed Name

Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	Well Off
VPC Inlet	1437	795 pps	797,000					
VPC Midpoint								
VPC Outlet	1439	O pab	0					

1. Flow rate calculated from the equation Flow Rate  $(cfm) = 12.24 \times \sqrt{differential}$  pressure.

Questions? Call Justin Neste @ (360) 981-5606

At the Completion of a monitoring event scan monitoring forms and e-mail to Justin Neste @ Justin.Neste@calibresys.com

Justin Nege Printed Name

Attachment B: Laboratory Data Package



9/17/2018 Mr. Justin Neste CALIBRE, Environmental Technology Solutions 20926 Pugh Rd NE

Poulsbo WA 98370

Project Name: Project #: Workorder #: 1809012

Dear Mr. Justin Neste

The following report includes the data for the above referenced project for sample(s) received on 9/4/2018 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Killy Butte

Kelly Buettner Project Manager

A Eurofins Lancaster Laboratories Company

180 Blue Ravine Road, Suite B Folsom, CA 95630



#### WORK ORDER #: 1809012

#### Work Order Summary

CLIENT:	Mr. Justin Neste CALIBRE, Environmental Technology Solutions 20926 Pugh Rd NE Poulsbo, WA 98370	BILL TO:	Accounts Payable Eurofins Lancaster Laboratories Environmental, LLC 2425 New Holland Pike Lancaster, PA 17605-2425
PHONE:	360-981-5606	<b>P.O.</b> #	
FAX:		PROJECT #	
DATE RECEIVED: DATE COMPLETED:	09/04/2018 09/17/2018	CONTACT:	Kelly Buettner

			RECEIPT	FINAL
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.	PRESSURE
01A	5-09-SVE-IN-083018	TO-15	3.5 "Hg	15 psi
02A	5-09-SVE-2-083018	TO-15	6.0 "Hg	15 psi
03A	Lab Blank	TO-15	NA	NA
04A	CCV	TO-15	NA	NA
05A	LCS	TO-15	NA	NA
05AA	LCSD	TO-15	NA	NA

CERTIFIED BY:

Lai

09/17/18 DATE:

DECEIDT

TEINIA I

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016. Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000. (800) 985-5955. FAX (916) 985-1020



#### LABORATORY NARRATIVE EPA Method TO-15 CALIBRE, Environmental Technology Solutions Workorder# 1809012

Two 1 Liter Summa Canister samples were received on September 04, 2018. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

#### **Receiving Notes**

There were no receiving discrepancies.

#### Analytical Notes

There were no analytical discrepancies.

#### **Definition of Data Qualifying Flags**

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



## Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

#### Client Sample ID: 5-09-SVE-IN-083018

Lab ID#: 1809012-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	1.1	3.7	4.5	15
Trichloroethene	1.1	8.6	6.2	46
Tetrachloroethene	1.1	110	7.8	730

#### Client Sample ID: 5-09-SVE-2-083018

Lab ID#: 1809012-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	1.3	6.1	5.0	24
Trichloroethene	1.3	14	6.8	75
Tetrachloroethene	1.3	180	8.5	1200



#### Client Sample ID: 5-09-SVE-IN-083018 Lab ID#: 1809012-01A EPA METHOD TO-15 GC/MS FULL SCAN

Т

File Name: Dil. Factor:	p091220 2.29	Date of Collection: 8/30/18 12:00:00 Date of Analysis: 9/12/18 10:56 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
cis-1,2-Dichloroethene	1.1	3.7	4.5	15
Benzene	1.1	Not Detected	3.6	Not Detected
Trichloroethene	1.1	8.6	6.2	46
Tetrachloroethene	1.1	110	7.8	730

#### Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	103	70-130



## Client Sample ID: 5-09-SVE-2-083018 Lab ID#: 1809012-02A EPA METHOD TO-15 GC/MS FULL SCAN

T

File Name: Dil. Factor:	p091221         Date of Collection: 8/30/18 12:           2.52         Date of Analysis: 9/12/18 11:22			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	13	Not Detected	26	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
cis-1,2-Dichloroethene	1.3	6.1	5.0	24
Benzene	1.3	Not Detected	4.0	Not Detected
Trichloroethene	1.3	14	6.8	75
Tetrachloroethene	1.3	180	8.5	1200

#### Container Type: 1 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	105	70-130



#### Client Sample ID: Lab Blank Lab ID#: 1809012-03A EPA METHOD TO-15 GC/MS FULL SCAN

Т

File Name: Dil. Factor:	p091211 1.00	Date of Collection: NA Date of Analysis: 9/12/18 04:31 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

		Method
Surrogates	%Recovery	Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	102	70-130



#### Client Sample ID: CCV Lab ID#: 1809012-04A EPA METHOD TO-15 GC/MS FULL SCAN

Т

File Name: Dil. Factor:	p091208 1.00	Date of Collection: NA Date of Analysis: 9/12/18 02:38	РМ
Compound		%Recovery	
Chloromethane		82	
Vinyl Chloride		89	
1,1-Dichloroethene		79	
Methylene Chloride		81	
cis-1,2-Dichloroethene		88	
Benzene			
Trichloroethene		97	
Tetrachloroethene		108	

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	100	70-130	
1,2-Dichloroethane-d4	90	70-130	
4-Bromofluorobenzene	107	70-130	



## Client Sample ID: LCS Lab ID#: 1809012-05A EPA METHOD TO-15 GC/MS FULL SCAN

Т

File Name: Dil. Factor:	p091209 1.00	Date of Collection: NA Date of Analysis: 9/12/18 03:03 PM	
Compound		%Recovery	Method Limits
Chloromethane		83	70-130
Vinyl Chloride		88	70-130
1,1-Dichloroethene		79	70-130
Methylene Chloride		81	70-130
cis-1,2-Dichloroethene		80	70-130
Benzene		90	70-130
Trichloroethene		102	70-130
Tetrachloroethene		108	70-130

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	101	70-130	
1,2-Dichloroethane-d4	88	70-130	
4-Bromofluorobenzene	108	70-130	



## Client Sample ID: LCSD Lab ID#: 1809012-05AA EPA METHOD TO-15 GC/MS FULL SCAN

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File Name: Dil. Factor:	p091210 1.00	Date of Collection: NA Date of Analysis: 9/12/18 03:28 PM	
Compound		%Recovery	Methoo ery Limits
Chloromethane		87	70-130
Vinyl Chloride		85	70-130
1,1-Dichloroethene		79	70-130
Methylene Chloride		82	70-130
cis-1,2-Dichloroethene		80	70-130
Benzene		89	70-130
Trichloroethene		100	70-130
Tetrachloroethene		108	70-130

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	101	70-130	
1,2-Dichloroethane-d4	90	70-130	
4-Bromofluorobenzene	107	70-130	