TECHNICAL MEMORANDUM



TO: Joe Flaherty, Boeing Environment, Health, and Safety Remediation

FROM: Tim Syverson and Kathryn Hartley

DATE: April 29, 2011

RE: SUPPLEMENTAL PHASE II ENVIRONMENTAL SITE ASSESSMENT FINDINGS BOEING STRIKER PROPERTY KENT, WASHINGTON

INTRODUCTION

At the request of The Boeing Company (Boeing), Landau Associates conducted a Supplemental Phase II Environmental Site Assessment (ESA) for the approximately 75-acre Striker Property, located within the Boeing Space Center at 20403 68th Avenue South, in Kent, Washington (subject property; Figure 1). The Supplemental Phase II investigation was conducted as part of due diligence prior to the potential sale of the subject property to document current site conditions and assess potential liabilities for Boeing due to its operations at the property. The scope of work performed was established in our Supplemental Phase II ESA Work Plan dated January 19, 2011 and was developed to address recommendations identified in the initial Phase II ESA that was also conducted as part of Boeing's due diligence. The initial Phase II ESA results, conclusions, and recommendations are summarized in the Phase II ESA technical memorandum dated December 6, 2010. The Supplemental Phase II investigation also included follow-on soil and groundwater sampling in the area of a former diesel generator, where soil excavation was conducted in November 2010, and within the former footprint of Building 18-22. The generator and Building 18-22 were removed after the initial Phase II investigation.

This technical memorandum summarizes the results of the Supplemental Phase II ESA. Table 1 summarizes the sampling locations and sample analysis. The sampling locations are shown on Figure 2. Tables 2 and 3 summarize the results of the soil and groundwater sampling and analyses, respectively.

SOIL GAS SAMPLING

On January 27, 2011, Cascade Drilling and Landau Associates mobilized to collect soil gas samples from the area around location DP-16. According to the current draft Ecology guidance, soil gas samples should not be collected from depths shallower than 5 feet (ft) below ground surface (BGS) due to the possibility of diluting the collected soil gas with atmospheric air (Ecology 2009¹). Soil gas samples

¹ Ecology. 2009. Review Draft: Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Publication No. 09-09-047. Washington State Department of Ecology, Toxics Cleanup Program. October.

could not be collected from deeper than 4 ft BGS at the subject property because the water table was elevated to within 4 ft of the ground surface due to seasonal fluctuations. Additionally, based on helium leak detection tests, a competent seal could not be achieved with the Post Run Tubing (PRT) soil gas sampling equipment setup. Therefore, the soil gas sampling was not conducted.

SOIL AND GROUNDWATER SAMPLING

On January 25 through January 27, 2011, Cascade Drilling advanced 17 direct-push borings at the subject property to collect soil and groundwater samples. Borings were advanced to depths ranging from 8 ft BGS to 15 ft BGS. Soil samples were collected from 15 of the 17 borings and groundwater samples were collected from all 17 borings, as summarized in Table 1. One boring was also completed at location DP-25, but the boring encountered backfill from the diesel generator area excavation, so the drilling rig moved about 15 ft to the west and completed boring DP-25b. A groundwater sample was collected from DP-25, but was not analyzed. Boring DP-25b replaced boring DP-25, so boring DP-25 is not included in Table 1, on Figure 2, or discussed in the sections below.

The soil and groundwater samples were delivered to Analytical Resources, Inc. of Tukwila, Washington and samples were submitted for selected analysis for volatile organic compounds (VOCs) by Method SW8260C, gasoline-range total petroleum hydrocarbons (TPH-G) by Method NWTPH-G, diesel-range total petroleum hydrocarbons (TPH-D) and oil-range petroleum hydrocarbons (TPH-O) by Method NWTPH-Dx, hexavalent chromium by Method SM3500CrD, and arsenic by Method 200.8.

The analytical results for soil and groundwater were compared to preliminary Washington State Model Toxics Control Act (MTCA) Method B cleanup levels for screening purposes. The analytical results for the soil samples are provided in Table 2 and are summarized as follows:

- TPH-G was detected at a concentration of 790 milligrams per kilogram (mg/kg) in the sample collected from DP-24 at a depth of 6 to 7 ft BGS. The detected concentration is greater than the screening level (100 mg/kg). TPH-G was also detected in the sample collected at a depth of 8 to 9 ft BGS from DP-24, but the detected concentration (an estimated 23 mg/kg) is less than the screening level). TPH-G was also detected in the sample collected at a depth of 4.5 to 5 ft BGS from DP 25b, but the detected concentration (56 mg/kg) is less than the screening level. The deeper sample (7 to 8 ft BGS) from DP-25b was not submitted for laboratory analysis. The laboratory analytical report indicates that the reported detections are within the gasoline range, but do not match an identifiable gasoline pattern.
- TPH-D was detected at DP-24 (7.0 mg/kg) and DP-25b (560 mg/kg) at concentrations less than the screening level (2,000 mg/kg). TPH-O was detected at DP-25b (43 mg/kg) at a concentration less than the screening level (2,000 mg/kg).
- VOCs were detected in each of the five soil samples analyzed for VOCs at concentrations greater than the laboratory reporting limits. At DP-17 and DP-19, two compounds were detected, at DP-20, three compounds were detected, and at DP-21, four compounds were detected. The detected concentrations at these locations were all less than their respective screening levels. At DP-18, five compounds were detected at concentrations greater than the

laboratory reporting limits. The detected concentration of methylene chloride [24 micrograms per kilogram (μ g/kg)] in the sample from DP-18 is slightly greater than the screening level (22 μ g/kg). The detected concentrations of the other compounds detected at DP-18 were all less than their respective screening levels.

- Arsenic was detected in each of the 12 soil samples analyzed for arsenic at concentrations greater than the laboratory reporting limits. The detected concentrations are all below the screening levels, with the exception of arsenic at DP-32 (7.7 mg/kg) and DP-33 (8.6 mg/kg), which are slightly greater than the screening level (7 mg/kg).
- Hexavalent chromium was not detected in any of the soil samples at concentrations greater than the laboratory reporting limits.

The analytical results for the groundwater samples are provided in Table 3 and are summarized as follows:

- TPH-G was detected in two of the four groundwater samples analyzed (DP-24 and DP-25b) and TPH-Dx was detected in one of the groundwater samples analyzed (DP-25b) at a concentration greater than the laboratory reporting limit. All of the detected TPH-G and TPH-D concentrations were less than their respective screening levels. TPH-O was not detected in any of the samples analyzed at concentrations greater than the laboratory reporting limits.
- VOCs were detected in all five of the groundwater samples analyzed at concentrations greater than the laboratory reporting limits. Three of the five samples indicated concentrations of VOCs greater than the screening levels: vinyl chloride was detected at DP-17 [0.8 micrograms per liter (µg/L)] and DP-18 (1.4 µg/L) at concentrations greater than the screening level (0.29 µg/L), and acetone was detected at DP-21 (980 µg/L) at a concentration greater than the screening level (800 µg/L).
- Arsenic was detected above the laboratory reporting limit in all 16 of the groundwater samples analyzed at concentrations ranging from 0.3 μ g/L to 115 μ g/L. The detected concentrations in 11 of the samples are greater than the MTCA Method B screening level (5 μ g/L).
- Hexavalent chromium was detected in one of the five groundwater samples analyzed (DP-30) at a concentration greater than the laboratory reporting limit. The detected concentration [0.014 milligrams per liter (mg/L)] is less than the screening level (0.048 mg/L).

CONCLUSIONS AND RECOMMENDATIONS

As noted above, the Supplemental Phase II investigation was designed to address recommendations identified in the initial Phase II ESA, and to document current conditions at the subject property in the area of the former diesel generator and within the footprint of former Building 18-22 per Boeing Environment, Health, and Safety protocol. Based on the findings of the Supplemental Phase II investigation, further evaluation does not appear warranted. The conclusions of this investigation are as follows:

1. Chlorinated Solvents in northeastern portion of subject property: Chlorinated solvents (methylene chloride and vinyl chloride) were detected in soil (methylene chloride only) and in groundwater (vinyl chloride only) in the northeastern portion of the subject property

consistent with the findings of the initial Phase II ESA. The results of the initial and supplemental Phase II investigations indicate localized VOC contamination in this area at low concentrations, which is consistent with the results for the northern portion of the subject property from the previous Clearwater investigation in 2002. Also consistent with the previous Clearwater investigation, the initial and supplemental Phase II investigations did not identify a source for the low concentrations of VOCs detected. Given that a No Further Action (NFA) determination was issued by the Washington State Department of Ecology (Ecology) for this portion of the Boeing Space Center in 2003, and that contaminant concentrations are consistent with the findings of the investigations on which the NFA determination was based, no further investigation is warranted.

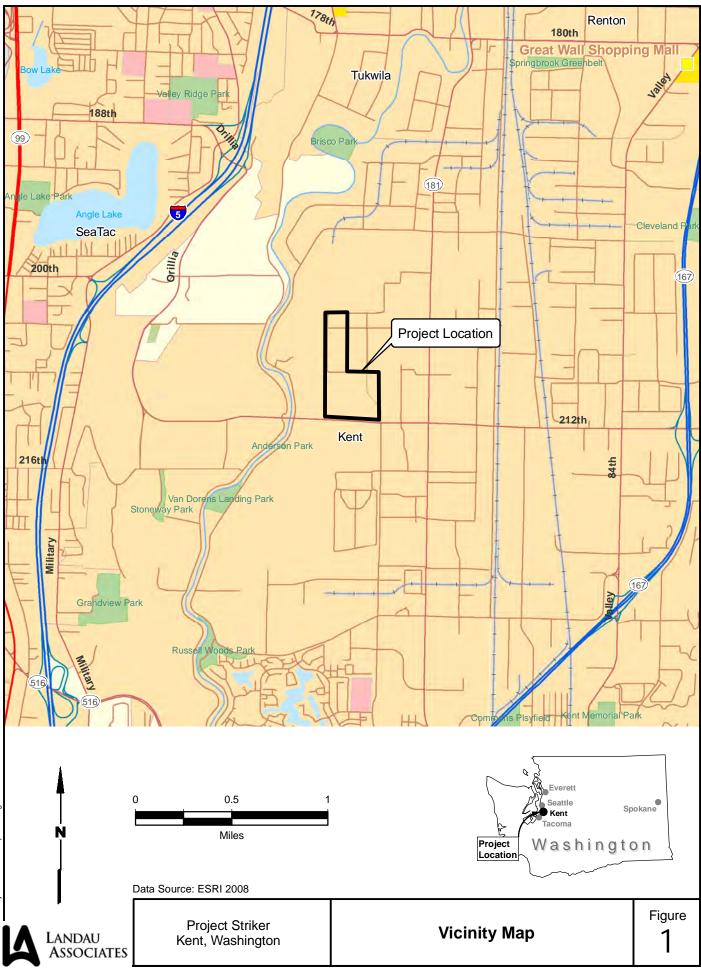
- 2. Acetone in Groundwater (DP-21): Acetone was detected in groundwater at one location (DP-21) at a concentration greater than the screening level. During the initial Phase II sampling, acetone was detected at a concentration slightly greater than the laboratory reporting limits, but well below the screening level, in one of the nine groundwater samples analyzed. Acetone was not detected in the groundwater sample from location DP-2, which is downgradient of DP-21. Acetone was detected at low concentrations in soil in this area; the detected concentrations were well below the screening level. The analytical data do not suggest a source for acetone in soil or widespread acetone impact to groundwater.
- 3. **Diesel Generator Spill and Excavation Area (DP-24):** TPH-G was the only analyte detected at a concentration greater than the screening level in soil at a single location (DP-24) near the southern extent of the excavation area around the former diesel generator and associated aboveground storage tank KSA-46, and there were no detections above the screening levels in any of the groundwater samples, including samples analyzed from DP-24 and the samples collected from locations directly downgradient of the diesel generator. Based on the analytical data, the recent excavation of petroleum hydrocarbon-impacted soil from this area, and because this area is currently paved, the concentration of TPH-G detected in soil is not considered a source for impact to groundwater; therefore, no further action appears warranted. A summary report will be prepared for submittal to Ecology under the Voluntary Cleanup Program (VCP) in support of a request for an NFA determination for the diesel generator area.
- 4. Arsenic in Groundwater (site-wide): Arsenic has been detected at concentrations greater than the screening level in groundwater from locations across the subject property. The investigations of the nature and extent of arsenic in groundwater have not identified a potential source of arsenic at the subject property. Based on the analytical data, the arsenic appears to reflect area-wide groundwater conditions and does not appear to be due to a subject property-specific source; therefore; no further investigation is warranted regarding the concentrations of arsenic detected in groundwater at the subject property. Additionally, Boeing will file a deed restriction for the property to restrict drinking water production wells, or any other consumption or use of groundwater from the subject property.
- 5. **Hexavalent Chromium in Groundwater:** During the initial Phase II ESA, hexavalent chromium was detected in groundwater at one location (DP-5, 0.049 mg/L) at a concentration 0.001 mg/L greater than the screening level (0.048 mg/L). During the Supplemental Phase II investigation, hexavalent chromium was detected in one of five groundwater samples analyzed at a concentration greater than the laboratory reporting limit, but less than the screening level. MTCA allows for compliance with the screening levels if: 1) no single sample concentration is greater than two times the screening level; 2) less than 10 percent of the concentrations exceed the screening level; and 3) the upper one-sided 95 percent confidence limit (UCL) on the true mean concentration is less than the screening level. Based on evaluation of site wide groundwater data and a calculated UCL of 0.042 mg/L, the

hexavalent chromium concentrations in groundwater at the subject property comply with the screening level. In addition, hexavalent chromium has not been detected in any of the soil samples analyzed from the subject property at concentrations greater than the laboratory reporting limits. Based on the analytical data, the low concentrations of hexavalent chromium detected in groundwater appear to reflect area-wide groundwater conditions and do not appear to be due to a subject property-specific source; therefore; no further investigation is warranted regarding the concentrations of hexavalent chromium detected in groundwater at the subject property. As discussed above, Boeing will file a deed restriction for the property to restrict drinking water production wells, or any other consumption or use of groundwater from the property.

With the exception of the diesel generator area and the detection of acetone in groundwater at one location at a concentration greater than the screening level, as discussed above, conditions in the northern portion of the subject property are consistent with conditions at the time the NFA determination was made for the Clearwater property, which included the northern portion of the subject property. No further action is recommended for this area, with the exception of submittal of a request for closure to Ecology for the diesel generator area. Investigation of subsurface soil, groundwater, and soil gas in the southern portion of the subject property has identified property-wide impact by arsenic and limited low concentrations of hexavalent chromium in groundwater that appear to reflect area-wide groundwater conditions and that are not related to a source on the subject property. As we have discussed, the data for the southern portion of the subject property will be summarized in a report that can be submitted to Ecology in support of a request for an NFA determination for this portion of the subject property.

ATTACHMENTS

| Figure 1: | Vicinity Map |
|---------------|---|
| Figure 2 | Site Plan and Sampling Locations |
| Table 1: | Summary of Sample Locations and Analyses |
| Table 2: | Soil Analytical Results |
| Table 3: | Groundwater Analytical Results |
| Attachment 1: | Laboratory Analytical Reports (on CD-ROM) |



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TABLE 1 SUMMARY OF SAMPLING LOCATIONS AND ANALYSIS STRIKER PROPERTY, KENT SPACE CENTER KENT, WASHINGTON

| Sample ID | Purpose | Sample Type | Number of Samples | Collection Method | Field Observations | Sample Depths | Sample Depth Selected for Analysis | Analysis |
|-----------|---|----------------|----------------------|----------------------|--|--|---------------------------------------|---------------------------------|
| DP-17 | | Soil | 2 | Direct Push | No evidence of contamination | 2-3 ft BGS and 4-5 ft BGS | 4-5 ft BGS | VOCs, Arsenic |
| 01-17 | | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | VOCs, Arsenic |
| DP-18 | Further investigation of previous detections of VOCs at Phase II ESA location DP-16/SG-3. Soil and groundwater samples were collected north, south, east, | Soil | 2 | Direct Push | No evidence of contamination | 2-3 ft BGS and 4-5 ft BGS | 4-5 ft BGS | VOCs, Arsenic |
| DF-10 | and west of DP-16 to evaluate the extent of contamination identified at DP- | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | VOCs, Arsenic |
| DP-19 | 16/SG-3. Soil gas sampling was also planned for the original location of DP- 16/SG-3 (DP-16a), and for locations to north, south, east, and west of DP-16, | Soil | 2 | Direct Push | No evidence of contamination | 2-3 ft BGS and 3.5-4.5 ft BGS | 3.5-4.5 ft BGS | VOCs, Arsenic |
| DF-19 | but samples were not collected due to the high groundwater elevation. | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | VOCs, Arsenic |
| DP-20 | | Soil | 2 | Direct Push | No evidence of contamination | 2-3 ft BGS and 4.5-5.5 ft BGS | 4.5-5.5 ft BGS | VOCs, Arsenic |
| DI -20 | | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | VOCs, Arsenic |
| | Further investigation at sampling location 18-22-1a where VOCs were detected | Soil | 3 | Direct Push | No evidence of contamination | 0-0.5 ft BGS, 2.5-3 ft BGS, and 3-3.5 ft BGS | 3-3.5 ft BGS | VOCs |
| DP-21 | during post-demolition sampling. One soil boring was advanced at the original location of sample 18-22-1a to evaluate the vertical extent of impact to soil and to evaluate groundwater conditions. | | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 4-8 ft BGS | 4-8 ft BGS | VOCs |
| DP-22 | | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | TPH-Dx, TPH-G, Arsenic |
| DP-23 | | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | TPH-Dx, TPH-G, Arsenic |
| DP-24 | Document groundwater quality in the area where soil was removed from the former diesel generator location. Groundwater samples were collected from just | Soil | 2 | Direct Push | Hydrocarbon odor and slight sheen from 4-7 ft BGS | 6-7 ft BGS and 8-9 ft BGS | 6-7 ft BGS and 8-9 ft BGS | TPH-Dx, TPH-G, Arsenic |
| 51 24 | beyond the north, south, east, and west boundaries of the soil excavation. | Groundwater | 1 | Direct Push | Sheen on purge water | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | TPH-Dx, TPH-G, Arsenic |
| DP-25b | | Soil | 2 | Direct Push | Hydrocarbon odor from 4.5-7 ft BGS | 4.5-5 ft BGS and 7-8 ft BGS | 4.5-5 ft BGS | TPH-Dx, TPH-G, Arsenic |
| DI 200 | | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | TPH-Dx, TPH-G, Arsenic |
| DP-26 | | Soil | 1 | Direct Push | No evidence of contamination | 1-1.5 ft BGs | 1-1.5 ft BGS | Hexavalent Chromium, Arsenic |
| DF-20 | | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | Hexavalent Chromium, Arsenic |
| DP-27 | | Soil | 1 | Direct Push | No evidence of contamination | 1-2 ft BGS | 1-2 ft BGS | Hexavalent Chromium, Arsenic |
| DF-21 | Further investigation in area of Phase II location DP-5 where metals were | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 11-15 ft BGS | 11-15 ft BGS | Hexavalent Chromium, Arsenic |
| DP-28 | detected in groundwater. Five soil borings were advanced to the north, south, east, and southeast of DP-5 to evaulate the potential for impacted groundwater | Soil | 1 | Direct Push | No evidence of contamination | 2.5-3.5 ft BGS | 2.5-3.5 ft BGS | Hexavalent Chromium, Arsenic |
| Di -20 | to be migrating from Building 18-03 (where arsenic and chromium were previously detected in wastewater generated from the former film processing | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | Hexavalent Chromium, Arsenic |
| DP-29 | operation). | Soil | 1 | Direct Push | No evidence of contamination | 7-8 ft BGS | 7-8 ft BGS | Hexavalent Chromium, Arsenic |
| D1 -23 | | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | Hexavalent Chromium, Arsenic |
| DP-30 | | Soil | 1 | Direct Push | No evidence of contamination | 2.5-3.5 ft BGS | 2.5-3.5 ft BGS | Hexavalent Chromium, Arsenic |
| | | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 6-10 ft BGS | 6-10 ft BGS | Hexavalent Chromium, Arsenic |

TABLE 1 SUMMARY OF SAMPLING LOCATIONS AND ANALYSIS STRIKER PROPERTY, KENT SPACE CENTER KENT, WASHINGTON

| Sample ID | Purpose | Sample Type | Number of Samples | Collection Method | Field Observations | Sample Depths | Sample Depth Selected for Analysis | Analysis |
|-----------|---|----------------|----------------------|----------------------|------------------------------|---|---------------------------------------|----------|
| DP-31 | | Soil | 1 | Direct Push | No evidence of contamination | 5-6 ft BGS | 5-6 ft BGS | Arsenic |
| DF-31 | | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 4-8 ft BGS | 4-8 ft BGS | Arsenic |
| DP-32 | were detected in groundwater. Soil borings were advanced to the west, northwest, and southeast of DP-11 to evaulate groundwater conditions | Soil | 1 | Direct Push | No evidence of contamination | 3.5-4.5 ft BGS | 3.5-4.5 ft BGS | Arsenic |
| DF-32 | | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 4-8 ft BGS | 4-8 ft BGS | Arsenic |
| DP-33 | previous detections of arsenic in groundwater in this area. | Soil | 1 | Direct Push | No evidence of contamination | 1.5-2.5 ft BGS | 1.5-2.5 ft BGS | Arsenic |
| DF-33 | | Groundwater | 1 | Direct Push | No evidence of contamination | Temporary screen placed from 4-8 ft BGS | 4-8 ft BGS | Arsenic |

| | MTCA Me hod A Cleanup Levels for | MTCA Method B | KSC-DP-17 S-4-5 SG59E | KSC-DP-18 S-4-5 SG59H | KSC-DP-19 S-3.5-4.5 SG59G | KSC-DP-20 S-4.5-5.5 SG59F | KSC-DP-21 S-3-3.5 SG59I | KSC-DP-24 S-6-7 SG42O | KSC-DP-24 S-8-9 SJ32A | KSC-DP-25b S-4.5-5 SG42N | KSC-DP-26 S-1-1 5 SG19F | KSC-DP-27 S-1-2 SG19H | K |
|---|-------------------------------------|----------------|-----------------------------|-----------------------------|---------------------------------|---------------------------------|-------------------------------|-----------------------------|-----------------------------|--------------------------------|-------------------------------|-----------------------------|---|
| | Unrestricted Land Uses | Cleanup Levels | 01/27/2011 | 01/27/2011 | 01/27/2011 | 01/27/2011 | 01/27/2011 | 01/26/2011 | 1/26/2011 | 01/26/2011 | 01/25/2011 | 01/25/2011 | 0 |
| VOLATILES (µg/kg) | | | | | | | | | | | | | |
| Method SW8260C | | | | | | | | | | | | | |
| Chloromethane | | | 1.1 UJ | 1.0 UJ | 1.0 UJ | 1.0 UJ | | | | | | | |
| Bromomethane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Vinyl Chloride | | 1.8 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Chloroethane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Methylene Chloride | | 22 | 17 | 24 | 9.0 | 11 | 4.9 | | | | | | |
| Acetone | | 3200 | 22 J | 49 J | 18 J | 35 J | 62 J | | | | | | |
| Carbon Disulfide | | 5700 | 1.1 U | 1.4 | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 1,1-Dichloroethene 1,1-Dichloroethane | | | 1.1 U 1.1 U | 1.0 U 1.0 U | 1.0 U 1.0 U | 1.0 U 1.0 U | 1.0 U 1.0 U | | | | | | |
| trans-1,2-Dichloroethene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| cis-1,2-Dichloroethene | | 350 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Chloroform | | 000 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 1,2-Dichloroethane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 2-Butanone | | 20000 | 5.3 U | 5.0 U | 5.1 U | 4.8 U | 4.8 U | | | | | | |
| 1,1,1-Trichloroethane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Carbon Tetrachloride | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Vinyl Acetate | | | 5.3 U | 5.0 U | 5.1 U | 4.8 U | 4.8 U | | | | | | |
| Bromodichloromethane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 1,2-Dichloropropane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| cis-1,3-Dichloropropene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Trichloroethene | 30 | 3 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 | | | | | | |
| Dibromochloromethane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 1,1,2-Trichloroethane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Benzene | | 28 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| trans-1,3-Dichloropropene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 2-Chloroethylvinylether | | | 5.3 U | 5.0 U | 5.1 U | 4.8 U | 4.8 U | | | | | | |
| Bromoform | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 4-Methyl-2-Pentanone (MIBK) | | | 5.3 U | 5.0 U | 5.1 U | 4.8 U | 4.8 U | | | | | | |
| 2-Hexanone Tetrachloroethene | | | 5.3 U 1.1 U | 5.0 U 1.0 U | 5.1 U 1.0 U | 4.8 U 1.0 U | 4.8 U 1.0 U | | | | | | |
| 1,1,2,2-Tetrachloroethane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Toluene | 7,000 | 4,700 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Chlorobenzene | 1,000 | 4,700 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| E hylbenzene | 6,000 | 6,000 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Styrene | 0,000 | 0,000 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Trichlorofluoromethane | | 34,000 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | , | 2.1 U | 2.0 U | 2.0 U | 1.9 U | 1.9 U | | | | | | |
| m, p-Xylene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| o-Xylene | 9,000 | 15,000 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 1,2-Dichlorobenzene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 1,3-Dichlorobenzene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 1,4-Dichlorobenzene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Acrolein | | | 53 UJ | 50 UJ | 51 UJ | 48 UJ | 48 UJ | | | | | | |
| Methyl Iodide | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Bromoethane | | | 2.1 U | 2.0 U | 2.0 U | 1.9 U | 1.9 U | | | | | | |
| Acrylonitrile | | | 5.3 U | 5.0 U | 5.1 U | 4.8 U | 4.8 U | | | | | | |
| 1,1-Dichloropropene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Dibromomethane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 1,2-Dibromo-3-chloropropane | | | 5.3 U | 5.0 U | 5.1 U | 4.8 U | 4.8 U | | | | | | |
| 1,2,3-Trichloropropane trans-1,4-Dichloro-2-butene | | | 2.1 U 5.3 U | 2.0 U 5.0 U | 2.0 U 5.1 U | 1.9 U 4.8 U | 1.9 U 4.8 U | | | | | | |
| 1,3,5-Trimethylbenzene | | 4,000,000 | 5.3 U 1.1 U | 5.0 U 1.0 U | 1.0 U | 4.8 U 1.0 U | 4.8 U 1.0 U | | | | | | |
| 1,2,4-Trimethylbenzene | | 4,000,000 | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Hexachlorobutadiene | | .,000,000 | 5.3 U | 5.0 U | 5.1 U | 4.8 U | 4.8 U | | | | | | |
| | I | 1 | 0.0 0 | 0.0 0 | 0.1 0 | 4.0 0 | 0 U | | | | | | |

| KSC-DP-28 | KSC-DP-29 | KSC-DP-30 | KSC-DP-31 |
|------------|------------|------------|------------|
| S-2.5-3.5 | S-7-8 | S-2.5-3.5 | S-5-6 |
| SG19J | SG19G | SG19I | SG42I |
| 01/25/2011 | 01/25/2011 | 01/25/2011 | 01/26/2011 |

| | MTCA Me hod A Cleanup Levels for Unrestricted Land Uses | MTCA Method B Cleanup Levels | KSC-DP-17 S-4-5 SG59E 01/27/2011 | KSC-DP-18 S-4-5 SG59H 01/27/2011 | KSC-DP-19 S-3.5-4.5 SG59G 01/27/2011 | KSC-DP-20 S-4.5-5.5 SG59F 01/27/2011 | KSC-DP-21 S-3-3.5 SG59I 01/27/2011 | KSC-DP-24 S-6-7 SG42O 01/26/2011 | KSC-DP-24 S-8-9 SJ32A 1/26/2011 | KSC-DP-25b S-4.5-5 SG42N 01/26/2011 | KSC-DP-26 S-1-1 5 SG19F 01/25/2011 | KSC-DP-27 S-1-2 SG19H 01/25/2011 | ۲: ۲ ۵ |
|--|---|---------------------------------|---|---|---|---|---|---|--|--|---|---|--------------|
| E hylene Dibromide | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Bromochloromethane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 2,2-Dichloropropane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 1,3-Dichloropropane | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Isopropylbenzene | | | 1.1 U | 2.3 | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| n-Propylbenzene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| Bromobenzene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 2-Chlorotoluene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 4-Chlorotoluene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| tert-Butylbenzene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| sec-Butylbenzene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 4-Isopropyltoluene | | | 1.1 U | 1.3 J | 1.0 U | 1.6 J | 1.0 U | | | | | | |
| n-Butylbenzene | | | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | |
| 1,2,4-Trichlorobenzene | | | 5.3 U | 5.0 U | 5.1 U | 4.8 U | 4.8 U | | | | | | |
| Naph halene | 5,000 | 4,500 | 5.3 U | 5.0 U | 5.1 U | 4.8 U | 4.8 U | | | | | | |
| 1,2,3-Trichlorobenzene | | | 5.3 U | 5.0 U | 5.1 U | 4.8 U | 4.8 U | | | | | | |
| TOTAL METALS (mg/kg) Method EPA 200.8 | | | | | | | | | | | | | |
| Arsenic | 20 | 7 | 2.6 | 1.9 | 2.3 | 2.6 | | | | | 3.1 | 3.5 | |
| TOTAL PETROLEUM HYDROCARBONS (mg/kg) NWTPH-Dx | | | | | | | | | | | | | |
| Diesel Range Organics | 2,000 | 2,000 | | | | | | 7.0 | | 560 | | | |
| Lube Oil | 2,000 | 2,000 | | | | | | 11 U | | 43 | | | |
| | 2,000 | 2,000 | | | | | | 11.0 | | 43 | | | |
| NWTPH-Gx | | | | | | | | | | | | | |
| Gasoline Range Organics | 100 | 100 | | | | | | 790 | 23 J | 56 | | | |
| CONVENTIONALS Hexavalent Chrome (mg/kg) Method SM3500CrD | 19 | 18 | | | | | | | | | 0.452 U | J 0.436 | U |
| Total Solids (%) Method EPA 160 3 | | | | | | | | | | | 85.80 | 90.00 | |

| KSC-DP-28 | KSC-DP-29 | KSC-DP-30 | KSC-DP-31 |
|------------|------------|------------|------------|
| S-2.5-3.5 | S-7-8 | S-2.5-3.5 | S-5-6 |
| SG19J | SG19G | SG19I | SG42I |
| 01/25/2011 | 01/25/2011 | 01/25/2011 | 01/26/2011 |

| 3 | 3.8 | 4.1 | 4.7 | 4.3 |
|-----|------|---------|---------|-----|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 0.4 | 55 U | 0.430 U | 0.462 U | |

84.60 86.40 85.60

| | | I | KSC-DP-32 | KSC-DP-33 |
|--|--|------------------------|--------------------|--------------------|
| | MTCA Me hod A | MTCA Method B | S-3.5-4.5 SG42J | S-1.5-2.5 SG42K |
| | Cleanup Levels for Unrestricted Land Uses | Cleanup Levels | 01/26/2011 | 01/26/2011 |
| VOLATILES (µg/kg) | | | | |
| Method SW8260C | | | | |
| Chloromethane | | | | |
| Bromomethane | | | | |
| Vinyl Chloride | | 1.8 | | |
| Chloroethane | | 00 | | |
| Methylene Chloride | | 22 | | |
| Acetone | | 3200 | | |
| Carbon Disulfide 1,1-Dichloroethene | | 5700 | | |
| 1,1-Dichloroethane | | | | |
| trans-1,2-Dichloroethene | | | | |
| cis-1,2-Dichloroethene | | 350 | | |
| Chloroform | | 000 | | |
| 1,2-Dichloroethane | | | | |
| 2-Butanone | | 20000 | | |
| 1,1,1-Trichloroethane | | | | |
| Carbon Tetrachloride | | | | |
| Vinyl Acetate | | | | |
| Bromodichloromethane | | | | |
| 1,2-Dichloropropane | | | | |
| cis-1,3-Dichloropropene | | | | |
| Trichloroethene | 30 | 3 | | |
| Dibromochloromethane | | | | |
| 1,1,2-Trichloroethane Benzene | | 28 | | |
| trans-1,3-Dichloropropene | | 20 | | |
| 2-Chloroethylvinylether | | | | |
| Bromoform | | | | |
| 4-Methyl-2-Pentanone (MIBK) | | | | |
| 2-Hexanone | | | | |
| Tetrachloroethene | | | | |
| 1,1,2,2-Tetrachloroethane | | | | |
| Toluene | 7,000 | 4,700 | | |
| Chlorobenzene | | | | |
| E hylbenzene | 6,000 | 6,000 | | |
| Styrene | | | | |
| Trichlorofluoromethane | | 34,000 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | | |
| m, p-Xylene | 0.000 | 15 000 | | |
| o-Xylene 1.2-Dichlorobenzene | 9,000 | 15,000 | | |
| 1,2-Dichlorobenzene 1,3-Dichlorobenzene | | | | |
| 1,4-Dichlorobenzene | | | | |
| Acrolein | | | | |
| Methyl Iodide | | | | |
| Bromoethane | | | | |
| Acrylonitrile | | | | |
| 1,1-Dichloropropene | | | | |
| Dibromomethane | | | | |
| 1,1,1,2-Tetrachloroethane | | | | |
| 1,2-Dibromo-3-chloropropane | | | | |
| 1,2,3-Trichloropropane | | | | |
| trans-1,4-Dichloro-2-butene | | 4 000 000 | | |
| 1,3,5-Trimethylbenzene | | 4,000,000 4,000,000 | | |
| 1,2,4-Trimethylbenzene | | | | |

Page 3 of 4

| | MTCA Me hod A Cleanup Levels for Unrestricted Land Uses | MTCA Method B Cleanup Levels | KSC-DP-32 S-3.5-4.5 SG42J 01/26/2011 | KSC-DP-33 S-1.5-2.5 SG42K 01/26/2011 |
|--|---|---------------------------------|---|---|
| E hylene Dibromide | | | | |
| Bromochloromethane | | | | |
| 2,2-Dichloropropane | | | | |
| 1,3-Dichloropropane Isopropylbenzene | | | | |
| n-Propylbenzene | | | | |
| Bromobenzene | | | | |
| 2-Chlorotoluene | | | | |
| 4-Chlorotoluene | | | | |
| tert-Butylbenzene | | | | |
| sec-Butylbenzene | | | | |
| 4-Isopropyltoluene | | | | |
| n-Butylbenzene | | | | |
| 1,2,4-Trichlorobenzene | | | | |
| Naph halene | 5,000 | 4,500 | | |
| 1,2,3-Trichlorobenzene | | | | |
| TOTAL METALS (mg/kg) Method EPA 200.8 | | | | |
| Arsenic | 20 | 7 | 7.7 | 8.6 |
| TOTAL PETROLEUM HYDROCARBONS (mg/kg) | | | | |
| NWTPH-Dx | | | | |
| Diesel Range Organics | 2,000 | 2,000 | | |
| Lube Oil | 2,000 | 2,000 | | |
| NWTPH-Gx | | | | |
| Gasoline Range Organics | 100 | 100 | | |
| CONVENTIONALS | | | | |
| Hexavalent Chrome (mg/kg) | | | | |
| Method SM3500CrD | 19 | 18 | | |
| Total Solids (%) | | | | |
| Method EPA 160 3 | I | | | |

U = Indicates the compound was undetected at the reported concentration.

J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of he analyte in the sample.

UJ = The analyte was not detected in the sample; the reported sample reporting limit is an estimate.

Bold = Detected compound.

Box = Indicates detected concentration exceeds screening level.

Page 4 of 4

| | MTCA Me hod A Cleanup Levels | MTCA Method B Cleanup Levels | KSC-DP-17 SG59A 01/27/2011 | KSC-DP-18 SG59D 01/27/2011 | KSC-DP-19 SG59C 01/27/2011 | KSC-DP-20 SG59B 01/27/2011 | KSC-DP-21 SG42D 01/26/2011 | KSC-DP-22 SG42E 01/26/2011 | KSC-DP-23 SG42F 01/26/2011 | KSC-DP-24 SG42G 01/26/2011 | KSC-DP-25b SG42H 01/26/2011 | KSC-DP-26 SG19A 01/25/2011 | KSC-DP-27 SG19C 01/25/2011 | KSC-DP-28 SG19E 01/25/2011 | KSC-DP-29 SG19B 01/25/2011 | KSC-DP-30 SG19D 01/25/2011 |
|--|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| VOLATILES (µg/L) | | | | | | | | | | | | | | | | |
| Method SW8260C | | | | | | | | | | | | | | | | |
| Chloromethane | | | 05 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | | | | | | | |
| Bromomethane | | | 1 0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | | | | |
| Vinyl Chloride | 0.2 | 0.29 | 0.8 | 1.4 | 0.2 | 0.2 U | 0.2 U | | | | | | | | | |
| Chloroethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| Methylene Chloride Acetone | | 800 | 0 5 U 5 0 U | 0.5 U 5.0 U | 0.5 U 5.0 U | 0.5 U 5.2 | 2.4 980 | | | | | | | | | |
| | | 800 | 0 2 U | 0.2 U | | 5.2 0.2 U | | | | | | | | | | |
| Carbon Disulfide 1,1-Dichloroethene | | | 0 2 U 0 2 U | 0.2 U 0.2 U | 0.2 U 0.2 U | 0.2 U 0.2 U | 0.2 U 0.2 U | | | | | | | | | |
| 1,1-Dichloroethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| trans-1,2-Dichloroethene | | 100 | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| cis-1,2-Dichloroethene | | 70 | 0.2 | 0.4 | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| Chloroform | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 1,2-Dichloroethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 2-Butanone | | | 50 U | 5.0 U | 5.0 U | 5.0 U | 240 J | | | | | | | | | |
| 1,1,1-Trichloroethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| Carbon Tetrachloride | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| Vinyl Acetate | | | 10 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | | | | |
| Bromodichloromethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 1,2-Dichloropropane cis-1,3-Dichloropropene | | | 0 2 U 0 2 U | 0.2 U 0.2 U | 0.2 U 0.2 U | 0.2 U 0.2 U | 0.2 U 0.2 U | | | | | | | | | |
| Trichloroethene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 0 | | | | | | | | | |
| Dibromochloromethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 1,1,2-Trichloroethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| Benzene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.8 | | | | | | | | | |
| trans-1,3-Dichloropropene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 2-Chloroethylvinylether | | | 1 0 UJ | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 U | | | | | | | | | |
| Bromoform | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 4-Methyl-2-Pentanone (MIBK) | | | 50 U | 5.0 U | 5.0 U | 5.0 U | 40 J | | | | | | | | | |
| 2-Hexanone | | | 5 0 U | 5.0 U | 5.0 U | 5.0 U | 26 J | | | | | | | | | |
| Tetrachloroethene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane Toluene | 1,000 | 640 | 0 2 U 0 2 U | 0.2 U 0.2 | 0.2 U 0.6 | 0.2 U 0.2 | 0.2 U 1.6 | | | | | | | | | |
| Chlorobenzene | 1,000 | 040 | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| E hylbenzene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.3 | | | | | | | | | |
| Styrene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 3.0 | | | | | | | | | |
| Trichlorofluoromethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.6 | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 3.4 | | | | | | | | | |
| m, p-Xylene | | | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.7 | | | | | | | | | |
| o-Xylene | 1,000 | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.4 | | | | | | | | | |
| 1,2-Dichlorobenzene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 1,3-Dichlorobenzene | | | 020 | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 1,4-Dichlorobenzene Acrolein | | | 0 2 U 5 0 U | 0.2 U 5.0 U | 0.2 U 5.0 U | 0.2 U 5.0 U | 0.2 U 5.0 U | | | | | | | | | |
| Acroiein Methyl Iodide | | | 50 U 1 0 U | 5.0 U 1.0 U | 5.0 U 1.0 U | 5.0 U 1.0 U | 5.0 U 1.0 U | | | | | | | | | |
| Bromoethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| Acrylonitrile | | | 1 0 UJ | | | | | | | | | | | | | |
| 1,1-Dichloropropene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| Dibromomethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | | | 05 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | | | | | | | |
| 1,2,3-Trichloropropane | | | 0 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | | | | | | | |
| trans-1,4-Dichloro-2-butene | | | 1 0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | | | | | | |
| 1,3,5-Trimethylbenzene | | 400 | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 1,2,4-Trimethylbenzene | | 40 | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| Hexachlorobutadiene | I | 1 | 0 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | | | | | | | |

| | MTCA Me hod A Cleanup Levels | MTCA Method B Cleanup Levels | KSC-DP-17 SG59A 01/27/2011 | KSC-DP-18 SG59D 01/27/2011 | KSC-DP-19 SG59C 01/27/2011 | KSC-DP-20 SG59B 01/27/2011 | KSC-DP-21 SG42D 01/26/2011 | KSC-DP-22 SG42E 01/26/2011 | KSC-DP-23 SG42F 01/26/2011 | KSC-DP-24 SG42G 01/26/2011 | KSC-DP-25b SG42H 01/26/2011 | KSC-DP-26 SG19A 01/25/2011 | KSC-DP-27 SG19C 01/25/2011 | KSC-DP-28 SG19E 01/25/2011 | KSC-DP-29 SG19B 01/25/2011 | KSC-DP-30 SG19D 01/25/2011 |
|--|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| E hylene Dibromide | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| Bromochloromethane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 2,2-Dichloropropane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 1,3-Dichloropropane | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| Isopropylbenzene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| n-Propylbenzene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| Bromobenzene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 2-Chlorotoluene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 4-Chlorotoluene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| tert-Butylbenzene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| sec-Butylbenzene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 4-Isopropyltoluene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.4 | | | | | | | | | |
| n-Butylbenzene | | | 0 2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | | 05 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | | | | | | | |
| Naph halene | 160 | 160 | 05 U | 0.5 U | 0.5 U | 0.5 U | 1.9 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | | | 05 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | | | | | | | | | |
| DISSOLVED METALS (µg/L) Method EPA 200.8 Arsenic | 5 | 5 | 59.9 | 115 | 77.0 | 33.7 | | 66.0 | 66.7 | 2.7 | 71.6 | 0.8 | 111 | 18.0 | 1.1 | 31.9 |
| TOTAL PETROLEUM HYDROCARBONS (mg/L) | | | | | | | | | | | | | | | | |
| NWTPH-Dx | | | | | | | | | | | | | | | | |
| Diesel Range Organics | 0.5 | 0.5 | | | | | | 0.11 U | 0.10 U | | | | | | | |
| Lube Oil | 0.5 | 0.5 | | | | | | 0.22 U | 0.21 U | 0 21 L | J 0.21 U | | | | | |
| NWTPH-Gx | | | | | | | | | | | | | | | | |
| Gasoline Range Organics | 1 | 1 | | | | | | 0.10 U | 0.10 U | 0.35 | 0.38 | | | | | |
| Hexavalent Chrome (mg/L) Method SM3500CrD | | 0.048 | | | | | | | | | | 0.010 U | 0 010 U | 0.010 U | 0.010 U | 0.014 |



| | MTCA Me hod A | MTCA Method B | KSC-DP-31 SG42A | KSC-DP-32 SG42B | KSC-DP-33 SG42C |
|---------------------------------------|----------------|----------------|--------------------|--------------------|--------------------|
| | Cleanup Levels | Cleanup Levels | 01/26/2011 | 01/26/2011 | 01/26/2011 |
| VOLATILES (µg/L) | | | | | |
| Method SW8260C | | | | | |
| Chloromethane | | | | | |
| Bromomethane | | | | | |
| Vinyl Chloride | 0.2 | 0.29 | | | |
| Chloroethane | | | | | |
| Methylene Chloride | | | | | |
| Acetone | | 800 | | | |
| Carbon Disulfide | | | | | |
| 1,1-Dichloroethene | | | | | |
| 1,1-Dichloroethane | | | | | |
| trans-1,2-Dichloroethene | | 100 | | | |
| cis-1,2-Dichloroethene | | 70 | | | |
| Chloroform | | - | | | |
| 1,2-Dichloroethane | | | | | |
| 2-Butanone | | | | | |
| 1,1,1-Trichloroethane | | | | | |
| Carbon Tetrachloride | | | | | |
| Vinyl Acetate | | | | | |
| Bromodichloromethane | | | | | |
| 1,2-Dichloropropane | | | | | |
| cis-1,3-Dichloropropene | | | | | |
| Trichloroethene | | | | | |
| Dibromochloromethane | | | | | |
| 1,1,2-Trichloroethane | | | | | |
| Benzene | | | | | |
| trans-1,3-Dichloropropene | | | | | |
| | | | | | |
| 2-Chloroethylvinylether | | | | | |
| Bromoform | | | | | |
| 4-Methyl-2-Pentanone (MIBK) | | | | | |
| 2-Hexanone | | | | | |
| Tetrachloroethene | | | | | |
| 1,1,2,2-Tetrachloroethane | 4 | | | | |
| Toluene | 1,000 | 640 | | | |
| Chlorobenzene | | | | | |
| E hylbenzene | | | | | |
| Styrene | | | | | |
| Trichlorofluoromethane | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | | | |
| m, p-Xylene | | | | | |
| o-Xylene | 1,000 | | | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| Acrolein | | | | | |
| Methyl Iodide | | | | | |
| Bromoethane | | | | | |
| Acrylonitrile | | | | | |
| 1,1-Dichloropropene | | | | | |
| Dibromomethane | | | | | |
| 1,1,1,2-Tetrachloroethane | | | | | |
| 1,2-Dibromo-3-chloropropane | | | | | |
| 1,2,3-Trichloropropane | | | | | |
| trans-1,4-Dichloro-2-butene | | | | | |
| 1,3,5-Trimethylbenzene | | 400 | | | |
| 1,2,4-Trimethylbenzene | | 40 | | | |
| Hexachlorobutadiene | | | | | |

Page 3 of 4

| | MTCA Me hod A Cleanup Levels | MTCA Method B Cleanup Levels | KSC-DP-31 SG42A 01/26/2011 | KSC-DP-32 SG42B 01/26/2011 | KSC-DP-33 SG42C 01/26/2011 |
|--|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|
| E hylene Dibromide | | | | | |
| Bromochloromethane | | | | | |
| 2,2-Dichloropropane | | | | | |
| 1,3-Dichloropropane | | | | | |
| Isopropylbenzene | | | | | |
| n-Propylbenzene | | | | | |
| Bromobenzene | | | | | |
| 2-Chlorotoluene | | | | | |
| 4-Chlorotoluene | | | | | |
| tert-Butylbenzene | | | | | |
| sec-Butylbenzene | | | | | |
| 4-Isopropyltoluene | | | | | |
| n-Butylbenzene | | | | | |
| 1,2,4-Trichlorobenzene | 100 | 4.0.0 | | | |
| Naph halene | 160 | 160 | | | |
| 1,2,3-Trichlorobenzene | | | | | |
| DISSOLVED METALS (µg/L) Method EPA 200.8 | | | | | |
| Arsenic | 5 | 5 | 65.4 | 2.8 | 0.3 |
| TOTAL PETROLEUM HYDROCARBONS (mg/L) | | | | | |
| NWTPH-Dx | | | | | |
| Diesel Range Organics | 0.5 | 0.5 | | | |
| Lube Oil | 0.5 | 0.5 | | | |
| NWTPH-Gx | | | | | |
| | 1 | 1 | | | |
| Gasoline Range Organics | 1 | 1 | | | |
| Hexavalent Chrome (mg/L) Method SM3500CrD | | 0.048 | | | |

U = Indicates the compound was undetected at the reported concentration.

J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentra ion of the analyte in the sample.

UJ = The analyte was not detected in the sample; the reported sample reporting limit is an es imate.

Bold = Detected compound.

Box = Indicates detected concentration exceeds screening level.

Page 4 of 4

ATTACHMENT 1

Laboratory Analytical Reports



February 2, 2011

Kathryn Hartley Landau Associates 130 Second Avenue South Edmonds, WA 98020

RE: Project: Striker 025195.030.032 ARI Job: SG19

Dear Kathryn,

Enclosed, please find the original Chain-of-Custody (COC) records, sample receipt documentation, and final data report for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted five soil samples and five water samples in good condition on January 25, 2011 under sample delivery group (SDGs) SG19. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Forms.

The samples were analyzed for Dissolved Metals and Hexavalent Chrome, as requested on the COC.

The soluble hexavalent chrome matrix spike is out of control low for KSC-DP-26-S-1-1.5-110125. No action was taken.

There were no other irregularities with the samples.

Quality control analysis results are included for your review. An electronic copy of this report and all associated raw data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely, ANALYT CALRESC **ØRCES. INC** Kelly Bottem

Client Services Manager (206) 695-6211 kellyb@arilabs.com www.arilabs.com

Page 1 of

| Seattle/Edmonds (425) 778-0907 | | |
|---|----------------------|---|
| Tacoma (253) 926-2493 | | Date 01/25/2011 |
| LANDAU Spokane (509) 327-9737 | | |
| ASSOCIATES D Portiand (503) 542-1060 | stady Bagard | Pageof |
| | stody Record | |
| Project Name Striker Project No. 025195,030.032 | 2 Testing Parameters | Turnaround Time |
| Project Name <u>Striket</u> Project No. | | X Standard — A S X Accelerated — Hex (hrvn |
| Project Location/Event Supplemental Phase 11 / Kent, WA | | Accelerated - Hex Chron |
| Sampler's Name PRR + SED | | |
| Project Contact Tim Syverson, Kathryn Hartley, Joe Flaherty | | |
| Send Results To / (Bocins) / S | | |
| Sampler's Name <u>TKK TSED</u> Project Contact <u>Tim Syverson</u> , <u>Knthryn Hurthy</u> , <u>Joe Flaherty</u> Send Results To <u>" " " (Boeins)</u> No. of Sample I.D. Date Time Matrix Containers | ♥ | Observations/Comments |
| KSC-DP-26-5-1-1.5-110125 1/25/11 0900 Soil 2 X X | | X Allow water samples to settle, collect |
| KSC-DP-26-GW-110125 0926 H20 2 X X | | aliquot from clear portion |
| KSC-DP-29-5-7-8-110125 1150 5011 2 × × | | _X_NWTPH-Dx - run acid wash/silica gel cleanup |
| KSC-DP-29-GW-110/25 1220 H20 2 X X | | |
| KSC-DP-27-5-1-2-110125 1230 Soil 2 X X | | run samples standardized to |
| KSC-DP-27-GW-110125 1300 H20 2 X X | | product |
| KSC-DP-30-5-2.5-3.5-110125 1340 soil 2 X X | | Analyze for EPH if no specific |
| KSC-DP-30-GW-110125 1420 H20 2 X X | | product identified |
| KSC-DP-28-5-25-35-110125 1440 5011 Z X X | | VOC/BTEX/VPH (soll): non-preserved |
| KSC-DP-28-GW-110125 V 1515 H20 2 X X | | preserved w/methanol |
| | | preserved w/sodium bisulfate |
| | | Freeze upon receipt |
| | | L Dissolved metal water samples field filtered + As |
| | | Other Note 24-hr hold bottle only |
| | | time for Hex Chrome |
| | | |
| | | |
| | | |
| Special Shipment/Handling or Storage Requirements_ の ん | Method Shipme | nt deliver to ARI |
| Relinquished by | Relinquished by | Received by |
| Signature Signature | Signature | Signature |
| Susan F Dickerson Jonniser Willson | Printed Name | Printed Name |
| Printed Name Land an Assoc, Printed Name | | |
| Company | Company | Company |
| Date 1/25/11 Time 1625 Date 1/25/11 Time 1625 | Date Time | Date Time |

WHITE COPY - Project File

| Analytical Resources, Incorporated Analytical Chemists and Consultants Cooler Receipt F | orm | |
|---|-----------------|------|
| ARI Client: Landout Boeing Project Name: Striker | | |
| COC No(s): Delivered by: Fed-Ex UPS Courier Hand Deliv | ered Other: | |
| Assigned ARI Job No: 5G19 Tracking No: | | (NA) |
| Preliminary Examination Phase: | <u>.</u> . | |
| Were intact, properly signed and dated custody seals attached to the outside of to cooler? | YES | NO |
| Were custody papers included with the cooler? | YES | NO |
| Were custody papers properly filled out (ink, signed, etc.) | YES | NO |
| Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) | | |
| If cooler temperature is out of compliance fill out form 00070F | #: <u>909</u> 0 | 1619 |
| Cooler Accepted by: Date: Date: Time: 1625 | 5 | |
| Complete custody forms and attach all shipping documents | | |
| Log-In Phase: | | |
| Was a temperature blank included in the cooler? | YES | NO |
| Was a temperature blank included in the cooler ? | | |
| Was sufficient ice used (if appropriate)? NA | (YES) | NO |
| Were all bottles sealed in individual plastic bags? | YES | (NO) |
| Did all bottles arrive in good condition (unbroken)? | YES | NO |
| Were all bottle labels complete and legible? | YES | NO |
| Did the number of containers listed on COC match with the number of containers received? | VES | NO |
| Did all bottle labels and tags agree with custody papers? | KES | NO |
| Were all bottles used correct for the requested analyses? | (YES) | NO |
| Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA | YES | NO |
| Were all VOC vials free of air bubbles? | YES | NO |
| Was sufficient amount of sample sent in each bottle? | YES | NO |
| Date VOC Trip Biank was made at ARI | · | |
| Was Sample Split by ARI : (NA) YES Date/Time: Equipment: | Split by: | |
| Samples Logged by: Date: | | |

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|-------------------------------------|---------------------------------------|---------------------|------------------|
| | | | |
| | | | |
| | <u> </u> | | |
| | · · · · · · · · · · · · · · · · · · · | | |
| | | | |
| By: Da Small Air Bubbles Peabubb | ite: | Small → "sm" | |
| ~2mm 2-4 m | | | ······ |
| | | Peabubbles → "pb" | |
| | | Large → "lg" | |
| | | Headspace → "hs" | · · · · |

PRESERVATION VERIFICATION 01/25/11

Page 1 of 1

Inquiry Number: NONE Analysis Requested: 01/26/11 Contact: Syverson, Tim Client: The Boeing Company Logged by: JM Sample Set Used: Yes-481 Validatable Package: No Deliverables:



ARI Job No: SG19

PC: Kelly VTSR: 01/25/11

Project #: 025195.030.032
Project: Striker
Sample Site:
SDG No:
Analytical Protocol: In-house

| LOGNUM | | CN | WAD | | | | | | 1 1 | | N023 | | | AK102 | 2 Fe2+ | + DMET | | | ADJUSTEI | ED LOT | AMOUNT | |
|-------------------------|---------------------|-----|-----|----|----|----|------|----|-----|----|------|----|----|-------|--------|--------|-----|-----------|----------|--------|--------|---------|
| ARI ID | CLIENT ID | >12 | >12 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | >9 | <2 | <2 | FLT | FLT | PARAMETER | TO | NUMBER | ADDED | DATE/BY |
| 11-1596 SG19A | KSC-DP-26-GW-110125 | | | | | | NDIA | > | | | | | | | | Y | | | | | | |
| 11-1597 SG19B | KSC-DP-29-GW-110125 | | | | | , | DIS | | | | | | | | | Y | | | | | | |
| 11-1598 SG19C | KSC-DP-27-GW-110125 | | | | | | DIS | | | | | , | | | | Y | | | | | | |
| 11-1599 SG19D | KSC-DP-30-GW-110125 | | | | | | DIS | | | | | | | | | Y | | | | 1 | | |
| 11-1600 SG19E | KSC-DP-28-GW-110125 | | | | | | DJS | | | | | | | | | Y | | | ,, | 1 | | |

Checked By JM Date 125/11



INORGANICS ANALYSIS DATA SHEET DISSOLVED METALS

Page 1 of 1

Sample ID: KSC-DP-26-GW-110125 SAMPLE

Lab Sample ID: SG19A LIMS ID: 11-1596 Matrix: Water Data Release Authorized: Reported: 02/02/11 QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | μg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 01/28/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 0.8 | |

U-Analyte undetected at given RL RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET DISSOLVED METALS

Page 1 of 1

Sample ID: KSC-DP-29-GW-110125 SAMPLE

Lab Sample ID: SG19B LIMS ID: 11-1597 Matrix: Water Data Release Authorized: Reported: 02/02/11 QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | μg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 01/28/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 1.1 | |

U-Analyte undetected at given RL RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET DISSOLVED METALS Page 1 of 1

Sample ID: KSC-DP-27-GW-110125 SAMPLE

Lab Sample ID: SG19C LIMS ID: 11-1598 Matrix: Water Data Release Authorized Reported: 02/02/11 QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg∕L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 01/28/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 111 | |

.

U-Analyte undetected at given RL RL-Reporting Limit

2



INORGANICS ANALYSIS DATA SHEET DISSOLVED METALS

Page 1 of 1

Sample ID: KSC-DP-30-GW-110125 SAMPLE

Lab Sample ID: SG19D LIMS ID: 11-1599 Matrix: Water Data Release Authorized: Reported: 02/02/11

QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | μg/L | Q . |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|------------|
| 200.8 | 01/28/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 31.9 | |

U-Analyte undetected at given RL RL-Reporting Limit

.



INORGANICS ANALYSIS DATA SHEET DISSOLVED METALS Page 1 of 1

Sample ID: KSC-DP-28-GW-110125 SAMPLE

Lab Sample ID: SG19E LIMS ID: 11-1600 Matrix: Water Data Release Authorized: Reported: 02/02/11 QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg∕L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 01/28/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 18.0 | |

U-Analyte undetected at given RL RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET DISSOLVED METALS

Sample ID: METHOD BLANK

Page 1 of 1

Lab Sample ID: SG19MB QC Report No: SG19-The Boeing Company Project: Striker LIMS ID: 11-1596 Matrix: Water 025195.030.032 Data Release Authorized: Date Sampled: NA Reported: 02/02/11 Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | μg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 01/28/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |

U-Analyte undetected at given RL RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET DISSOLVED METALS Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: SG19LCS QC I LIMS ID: 11-1596 Matrix: Water Data Release Authorized: Reported: 02/02/11

QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: NA Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|-----------------------|--------------------|----------------|----------------|---------------|---|
| Arsenic | 200.8 | 26.0 | 25.0 | 104% | |
| Reported in μg , | /L | | | | |

N-Control limit not met Control Limits: 80-120%



Page 1 of 1

Sample ID: KSC-DP-26-S-1-1.5-110125 SAMPLE

Lab Sample ID: SG19F LIMS ID: 11-1601 Matrix: Soil Data Release Authorized: Reported: 02/02/11 QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Percent Total Solids: 85.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 3.1 | |

U-Analyte undetected at given RL RL-Reporting Limit



Page 1 of 1

Sample ID: KSC-DP-29-S-7-8-110125 SAMPLE

.

Lab Sample ID: SG19G LIMS ID: 11-1602 Matrix: Soil Data Release Authorized Reported: 02/02/11 QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Percent Total Solids: 86.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 4.1 | |

U-Analyte undetected at given RL RL-Reporting Limit



Page 1 of 1

Sample ID: KSC-DP-27-S-1-2-110125 SAMPLE

Lab Sample ID: SG19H LIMS ID: 11-1603 Matrix: Soil Data Release Authorized Reported: 02/02/11 QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Percent Total Solids: 86.6%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 3.5 | |

U-Analyte undetected at given RL RL-Reporting Limit



Page 1 of 1

Sample ID: KSC-DP-30-S-2.5-3.5-110125 SAMPLE

Lab Sample ID: SG19I LIMS ID: 11-1604 Matrix: Soil Data Release Authorized Reported: 02/02/11 QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Percent Total Solids: 84.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 4.7 | |

U-Analyte undetected at given RL RL-Reporting Limit



Sample ID: KSC-DP-28-S-2.5-3.5-110125 SAMPLE

Lab Sample ID: SG19J LIMS ID: 11-1605 Matrix: Soil Data Release Authorized: Reported: 02/02/11 QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Percent Total Solids: 86.3%

| Prep Meth | Pr ep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|----------------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 3.8 | |

U-Analyte undetected at given RL RL-Reporting Limit



Sample ID: METHOD BLANK

Page 1 of 1

}

Lab Sample ID: SG19MB LIMS ID: 11-1601 Matrix: Soil Data Release Authorized Reported: 02/02/11

QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: NA Date Received: NA

Percent Total Solids: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/01/11 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |
| - | yte undetect | | ven RL | | | | | |

RL-Reporting Limit



Sample ID: LAB CONTROL

Lab Sample ID: SG19LCS LIMS ID: 11-1601 Matrix: Soil Data Release Authorized Reported: 02/02/11

QC Report No: SG19-The Boeing Company Project: Striker 025195.030.032 Date Sampled: NA Date Received: NA

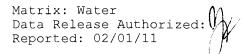
BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---------|--------------------|----------------|----------------|---------------|---|
| Arsenic | 200.8 | 26.4 | 25.0 | 106% | |

Reported in mg/kg-dry

N-Control limit not met NA-Not Applicable, Analyte Not Spiked Control Limits: 80-120%





Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Client ID: KSC-DP-26-GW-110125 ARI ID: 11-1596 SG19A

| Analyte | Date Batch | Method | Units | RL | Sample |
|-------------------|----------------------|------------|-------|-------|-----------|
| Hexavalent Chrome | 01/25/11 012511#1 | SM3500Cr-D | mg/L | 0.010 | < 0.010 U |

RL Analytical reporting limit

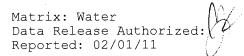


Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Client ID: KSC-DP-29-GW-110125 ARI ID: 11-1597 SG19B

| Analyte | Date Batch | Method | Units | RL | Sample |
|-------------------|----------------------|------------|-------|-------|-----------|
| Hexavalent Chrome | 01/25/11 012511#1 | SM3500Cr-D | mg/L | 0.010 | < 0.010 U |

RL Analytical reporting limit



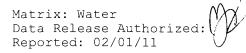


Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Client ID: KSC-DP-27-GW-110125 ARI ID: 11-1598 SG19C

| Analyte | Date Batch | Method | Units | RL | Sample |
|-------------------|----------------------|------------|-------|-------|-----------|
| Hexavalent Chrome | 01/25/11 012511#1 | SM3500Cr-D | mg/L | 0.010 | < 0.010 U |

RL Analytical reporting limit





Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

.

Client ID: KSC-DP-30-GW-110125 ARI ID: 11-1599 SG19D

| Analyte | Date Batch | Method | Units | RL | Sample |
|-------------------|----------------------|------------|-------|-------|--------|
| Hexavalent Chrome | 01/25/11 012511#1 | SM3500Cr-D | mg/L | 0.010 | 0.014 |

RL Analytical reporting limit



 Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Client ID: KSC-DP-28-GW-110125 ARI ID: 11-1600 SG19E

| Analyte | Date Batch | Method | Units | RL | Sample |
|-------------------|----------------------|------------|-------|-------|-----------|
| Hexavalent Chrome | 01/25/11 012511#1 | SM3500Cr-D | mg/L | 0.010 | < 0.010 U |

RL Analytical reporting limit

U Undetected at reported detection limit

,



Matrix: Water Data Release Authorized: M Reported: 02/01/11 Project: Striker Event: 025195.030.032 Date Sampled: NA Date Received: NA

| Analyte | Method | Date | Units | Blank | ID |
|-------------------|------------|----------|-------|-----------|----|
| Hexavalent Chrome | SM3500Cr-D | 01/25/11 | mg/L | < 0.010 U | |

STANDARD REFERENCE RESULTS-CONVENTIONALS SG19-The Boeing Company



Matrix: Water Data Release Authorized Reported: 02/01/11 Project: Striker Event: 025195.030.032 Date Sampled: NA Date Received: NA

| Analyte/SRM ID | Method | Date | Units | SRM | True Value | Recovery |
|---------------------------------|------------|----------|-------|-------|---------------|----------|
| Hexavalent Chrome ERA #41065 | SM3500Cr-D | 01/25/11 | mg/L | 0.622 | 0.630 | 98.7% |



Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

| Analyte | Method | Date | Units | Sample | Replicate(s) | RPD/RSD |
|----------------------|---------------|------------|-------|---------|--------------|---------|
| ARI ID: SG19A Client | ID: KSC-DP-26 | -GW-110125 | | | | |
| Hexavalent Chrome | SM3500Cr-D | 01/25/11 | mg/L | < 0.010 | < 0.010 | NA |

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| Matrix: Water | Md/ |
|---|------------|
| Matrix: Water Data Release Authorized: | 19 |
| Reported: 02/01/11 | ρ_{f} |
| - | V |

| Project: | Striker |
|----------------|----------------|
| Event: | 025195.030.032 |
| Date Sampled: | 01/25/11 |
| Date Received: | 01/25/11 |

| Analyte | Method | Date | Units | Sample | Spike | Spike Added | Recovery |
|----------------------|-------------|------------|-------|---------|-------|----------------|----------|
| ARI ID: SG19A Client | ID: KSC-DP- | 26-GW-1101 | 25 | | | | |
| Hexavalent Chrome | SM3500Cr-D | 01/25/11 | mg/L | < 0.010 | 0.617 | 0.627 | 98.4% |



Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Client ID: KSC-DP-26-S-1-1.5-110125 ARI ID: 11-1601 SG19F

| Analyte | Date | Method | Units | RL | Sample |
|-------------------|----------------------|------------|---------|-------|-----------|
| Hexavalent Chrome | 01/28/11 012811#1 | SM3500Cr-D | mg/kg | 0.452 | < 0.452 U |
| Total Solids | 01/27/11 012711#1 | EPA 160.3 | Percent | 0.01 | 85.80 |

RL Analytical reporting limit

U Undetected at reported detection limit



Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Client ID: KSC-DP-29-S-7-8-110125 ARI ID: 11-1602 SG19G

| Analyte | Date | Method Units | | RL | Sample |
|-------------------|----------------------|--------------|---------|-------|-----------|
| Hexavalent Chrome | 01/28/11 012811#1 | SM3500Cr-D | mg/kg | 0.430 | < 0.430 U |
| Total Solids | 01/27/11 012711#1 | EPA 160.3 | Percent | 0.01 | 86.40 |

RL Analytical reporting limit

U Undetected at reported detection limit



Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Client ID: KSC-DP-27-S-1-2-110125 ARI ID: 11-1603 SG19H

| Analyte | Date | Method | Units | RL | Sample |
|-------------------|----------------------|------------|---------|-------|-----------|
| Hexavalent Chrome | 01/28/11 012811#1 | SM3500Cr-D | mg/kg | 0.436 | < 0.436 U |
| Total Solids | 01/27/11 012711#1 | EPA 160.3 | Percent | 0.01 | 90.00 |

RL Analytical reporting limit

U Undetected at reported detection limit



Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Client ID: KSC-DP-30-S-2.5-3.5-110125 ARI ID: 11-1604 SG19I

| Analyte | Date Method Units | | Units | RL | Sample |
|-------------------|----------------------|------------|---------|-------|-----------|
| Hexavalent Chrome | 01/28/11 012811#1 | SM3500Cr-D | mg/kg | 0.462 | < 0.462 U |
| Total Solids | 01/27/11 012711#1 | EPA 160.3 | Percent | 0.01 | 85.60 |

RL Analytical reporting limit

U Undetected at reported detection limit



Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

Client ID: KSC-DP-28-S-2.5-3.5-110125 ARI ID: 11-1605 SG19J

| Analyte | Date | Method Units | | RL | Sample |
|-------------------|----------------------|--------------|---------|-------|-----------|
| Hexavalent Chrome | 01/28/11 012811#1 | SM3500Cr-D | mg/kg | 0.455 | < 0.455 U |
| Total Solids | 01/27/11 012711#1 | EPA 160.3 | Percent | 0.01 | 84.60 |

RL Analytical reporting limit

U Undetected at reported detection limit



Project: Striker Event: 025195.030.032 Date Sampled: NA Date Received: NA

| Analyte | Date Date | | Blank |
|-------------------|-----------|---------|-----------|
| Hexavalent Chrome | 01/28/11 | mg/kg | < 0.395 U |
| Total Solids | 01/27/11 | Percent | < 0.01 U |

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Matrix: Soil Data Release Authorized: Reported: 02/01/11 Project: Striker Event: 025195.030.032 Date Sampled: NA Date Received: NA

| Analyte/SRM ID | Date | Units | SRM | True Value | Recovery | |
|--|-----------------------|----------------|-------------|---------------|----------------|--|
| Soluble Hexavalent Chrome Insoluble Hexavalent Chrome Soil Hexavalent Chrome | 01/28/11 01/28/11, | mg/kg mg/kg | 37.7 526 | 39.5 553 | 95.4% 95.1% | |



| Project: | Striker |
|----------------|----------------|
| Event: | 025195.030.032 |
| Date Sampled: | 01/25/11 |
| Date Received: | 01/25/11 |

| Analyte | Date | Units | Sample | Replicate(s) | RPD/RSD | |
|------------------------|------------------|-------------|---------|----------------|---------|--|
| ARI ID: SG19F Client I | D: KSC-DP-26-S-1 | -1.5-110125 | 5 | | | |
| Hexavalent Chrome | 01/28/11 | mg/kg | < 0.452 | < 0.450 | NA | |
| Total Solids | 01/27/11 | Percent | 85.80 | 84.60 86.00 | 0.9% | |

a.(



Project: Striker Event: 025195.030.032 Date Sampled: 01/25/11 Date Received: 01/25/11

| Analyte | Date | Units | Sample | Spike | Spike Added | Recovery |
|--------------------------|-------------|-----------|---------|-------|----------------|----------|
| ARI ID: SG19F Client ID: | KSC-DP-26-S | -1-1.5-11 | 0125 | | | |
| Hexavalent Chrome | 01/28/11 | mg/kg | < 0.452 | 20.1 | 45.9 | 43.8% |
| Hexavalent Chrome | 01/28/11 | mg/kg | < 0.452 | 568 | 652 | 87.2% |



Kathryn Hartley Landau Associates 130 Second Avenue South Edmonds, WA 98020

RE: Project: Striker, 025195.003.032 ARI Job: SG42

Dear Kathryn,

Enclosed, please find the original and revised Chain-of-Custody (COC) records, sample receipt documentation, email documentation, and the final data report for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted nine water samples, ten soil samples, and a trip blank on January 26, 2011 under sample delivery group (SDG) SG42. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Forms. Select samples were placed on hold pending further instructions. Per Landau Associates, samples were allowed to settle and sample volume was collected from the clear portion.

The samples were analyzed for Total and Dissolved Arsenic, VOCs, NWTPH-Gx, and NWTPH-Dx, as requested.

The VOC continuing calibration (CCAL) analyzed on January 28, 2011 was outside the 20% control limit high for Acrolein, 2-Butanone, and 2-Hexanone. All results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.

The VOC LCS and LCSD percent recoveries Methyl Iodide of were outside the control limits high for LCS-013011. The LCSD percent recovery of Methyl Iodide and the LCS/LCSD percent recoveries of 2-Hexanone and Acrolein were outside the control limits high for LCS-012811. No corrective action was taken.

Several VOC matrix spike and matrix spike duplicate percent recoveries were outside the advisory control limits for sample **KSC-DP-21-GW-110126**. No corrective action is required for matrix QC.

There were no other analytical complications noted.

Quality control analysis results are included for your review. An electronic copy of this report and all associated raw data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely, ANALYTICAL RESOURCES, INC

Cheronne Oreiro **Project Manager** -For-Kelly Bottem Client Services Manager (206) 695-6211 kellyb@arilabs.com www.arilabs.com

Page 1 of ____

| Seattle/Edmonds (425) 778-0907 □ Tacoma (253) 926-2493 □ Seatona (500) 207 0707 | Date_1/26/2011 |
|---|--|
| LANDAU ASSOCIATES Portland (503) 542-1080 Chain-of-Cus | Page / of A |
| Project Name Striker Project No. 025/95.003 032 | Tasting Decemptors |
| Project Location/Event Kent, WA / Phase II Supplementa | Standard |
| | |
| Sampler's Name <u>PRR / SED</u> Project Contact <u>Tim Syverson</u> , <u>Kathryn Hartley</u> <u>Joe Flaherty</u> Send Results To <u>"""""""""""""""""""""""""""""""""""</u> | |
| Project Contact <u>IIM Syverson</u> , Kathryn Hartley Joe Haberty | · · · · · · · · · · · · · · · · · · · |
| Send Results To Anne Halvessen | |
| Sample I.D. Date Time Matrix Containers | KK / Observations/Comments |
| KS(-DP-31-GW-110126 1/26/11 0920 H20 1 + | X Allow water samples to settle, collect |
| KSC-DP-32-6W-110126 0955 H20 X | aliquot from clear portion |
| KSC- DP-33-GW-110126 1020 1+20 1 X | <u>X</u> NWTPH-Dx - run acid wash/silica gel cleanup |
| KSC-DP-ZI-GW-110126 1120 H20 3 X | |
| 45C-DP-31-5-5-6-116126 0850 50.1 1 X | run samples standardized to |
| KSC-DP-32-5-3.5-4.5-11044 0910 So.1 1 X | product |
| KSC-09-33-57.57.5710146 0935 Sol 1 X | Analyze for EPH if no specific product identified |
| · KS(-D1-21-5-0-05-11072 1040 Soil 3 X | |
| KSL-PP-21-5-3-35-110,26 1045 Soil 3 X | VOC/BTEX/VPH (soll): |
| | preserved w/methanol |
| | |
| | × Y |
| KS(-0P-24-5-8-9-110126 1405 50.1 3 | |
| | × f Other Archie Spks not Merked for Gradys.S |
| | |
| 1451-0P-24-6W-110170 V 1430 H, 0 5 4 7 | |
| HSL-DP-256-6W-110126 +302 H, U 5 Y | < ¥ |
| Special Shipment/Handling | Method of Shipment deliver + ARI |
| Relinquished by Received by M Received by | Relinquished by Received by |
| Signature Signature | Signature Signature |
| Printed Name Printed Name | Printed Name Printed Name |
| LAT ARE | . <i>*</i> |
| Company Company | Company Company |
| Date 1/26/11 Time 1650 Date 1/26/11 Time 1650 | Date Time Date Time |

| 🗆 Tacoma (| dmonds (425 253) 926-2493 (509) 327-973 503) 542-1080 | 3 | - Ch | ain-o | f-Cu | sto | dy | Re | ecoi | rd | | | Date 1/26/2011 Page 2 of 2 |
|---|--|-----------------------|---------|-------------------------------|--------------------|-----------|-----------------------|----|-----------|------------------|--------|------------------|--|
| Project Name <u>Fribe</u> Project Location/Event <u>hear</u> Sampler's Name <u>PRR</u> Project Contact <u>Tim Syverse</u> Send Results To <u>''</u> | n, Kett | ~47 H~ ''J | Anne 14 | Joe Flat Ivorsen No. of | herty/. - D | | | | Testin | ng Pa | rame | eters | Turnaround Time |
| Sample I.D. | Date | Time | | Container | s/ 7 λ | \square | | - | \square | $\left(\right)$ | - | $\left(\right)$ | <u>X</u> Allow water samples to settle, collect |
| TB \$56-09-25-6-110126 | 1/26/4 | 1300 | Itzu | 5 | | | | | | | | | aliquot from clear portion <u>X</u> NWTPH-Dx - run acid wash/silica gel cleanup |
| | | | | | | | | | | | | | run samples standardized to product |
| | | | | | | | | | | | | | Analyze for EPH if no specific product identified |
| | | | | | | | | | | | | | VOC/BTEX/VPH (soll): non-preserved preserved w/methanol preserved w/sodium bisulfate Freeze upon receipt |
| | | | | | | | | | | | | | Dissolved metal water samples field filtered Other |
| | | | | | | | | | | | | | |
| Special Shipment/Handling or Storage Requirements | On ic | e | | | | | | | | | N S | lethoc hipme | tof Pel, weed |
| Relinquished by Signature | | Received Signature | -k- | Mills | \sum_{a} | Sign | nquis ature | | by | | | | Received by Signature |
| Printed Name | F | Printed Nam | RI | | | | ed Nai | ne | | | | | Printed Name Company |
| Date 1/26/11 | 1 | Date $\frac{1}{2}$ | 6/11 | _ Time <u>(((</u> | , S O | Date | | | | Time | | | Date Time |

| Analytical Resources, Incorporated Analytical Chemists and Consultants | Cooler Rece | ipt F | orm | |
|---|----------------------------------|-----------|----------------|----------|
| ARI Client: Landair | Project Name: Strik | | ······ | |
| COC No(s): (NA) | Delivered by: Fed-Ex UPS Courier | Hand Del | ivered Other: | <u> </u> |
| Assigned ARI Job No: | Tracking No: | | | NA |
| Preliminary Examination Phase: | | | | |
| Were intact, properly signed and dated custody seals attached to the | e outside of to cooler? | | VES | NO |
| Were custody papers included with the cooler? | | | VES | NO |
| Were custody papers properly filled out (ink, signed, etc.) | | | (ES) | NO |
| Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemis | stry) <i>6.0 5</i> .0 | | \sim | |
| If cooler temperature is out of compliance fill out form 00070F | | emp Gun I | D#: 909 | 41619 |
| Cooler Accepted by: | | 1650 | 5 | · |
| | d attach all shipping documents | 102 | <u> </u> | |
| Log-In Phase: | | | | |
| Was a temperature blank included in the cooler? | | ck Paper | YES Other | NO |
| Was sufficient ice used (if appropriate)? | | NA | YES | NO |
| Were all bottles sealed in individual plastic bags? | | | YES | NO |
| Did all bottles arrive in good condition (unbroken)? | | | YES | NO |
| Were all bottle labels complete and legible? | | | (ES) | NO |
| Did the number of containers listed on COC match with the number | of containers received? | | (YES) | NO |
| Did all bottle labels and tags agree with custody papers? | | - | Mars | NO |
| Were all bottles used correct for the requested analyses? | | | YES | NO |
| Do any of the analyses (bottles) require preservation? (attach prese | ervation sheet, excluding VOCs) | NA | YES | NO |
| Were all VOC vials free of air bubbles? | | NA | YES | NO |
| Was sufficient amount of sample sent in each bottle? | | | YES | NO |
| Date VOC Trip Blank was made at ARI | | NA | 1/20 | s/u_ |
| Was Sample Split by ARI : NA YES Date/Time: | Equipment: | | , Split by: | |

ł ** Notify Project Manager of discrepancies or concerns **

Date:

Im

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC | |
|---|--|--------------------------|--|-----------------|
| KSC-DP-25B GW-110121 | C KSC-DP-256-GW-101 | 26 | | |
| | | | | |
| | | | | |
| Additional Notes, Discrepand KSC-DF-23-GW-1101 TB= SW in 2-62 | ries, & Resolutions: 2 7(sm inc (1/2, 1) | - SOBI preserved Val | 115 + 1-ACI preservi | ed s = 11417 |
| TB= SUN IN 2002 | 1 ⁴ | (SC-DP-21-S- 3-3.5-11 VI | 1264 K3C-DX-21-S-2.5- | 3-11012 |
| By: JUN | Date: 1/27/11 4 | annot use HCI Vice | nples. KSC-DP-21-S-0-0 264 KSC-DP-21-S-0-0 for analysis, should MeCH. | 6 be |
| Smell Air Bubbles Peabl | bbles' LARGE Air Bubbles | Small → "sm" | | |
| | mm >4 mm | Peabubbles → "pb" | | |
| • | • • • • | Large → "lg" | | |
| | | Headspace → "hs" | | |

Samples Logged by: _

1000

Time:

PRESERVATION VERIFICATION 01/27/11 Page 1 of 1

Inquiry Number: NONE Analysis Requested: 01/27/11 Contact: Syverson, Tim Client: Landau Associates, Inc. Logged by: JM Sample Set Used: Yes-481 Validatable Package: No Deliverables:



ARI Job No: SG42

PC: Kelly VTSR: 01/26/11

Project #: 025195.003.032
Project: Striker
Sample Site:
SDG No:
Analytical Protocol: In-house

| LOGNUM ARI ID | CLIENT ID | CN >12 | WAD >12 | NH3 <2 | COD <2 | FOG <2 | MET <2 | PHEN <2 | PHOS <2 | TKN <2 | NO23 <2 | TOC <2 | S2 >9 | AK102 <2 | DMET FLT | PARAMETER | ADJUSTED TO | LOT NUMBER | AMOUNT ADDED | DATE/BY |
|-------------------------|----------------------|-----------|------------|-----------|-----------|-----------|-----------|------------|------------|-----------|------------|-----------|----------|-------------|-------------|-----------|----------------|---------------|-----------------|---------|
| 11-1693 SG42A | KSC-DP-31-GW-110126 | | | | | | DIS | | | | | | | | Y | | | | | |
| 11-1694 SG42B | KSC-DP-32-GW-110126 | | | | | | DIS | | | | | | | | Y | | | | | |
| 11-1695 SG42C | KSC-DP-33-GW-110126 | | | | | | DIS | | | | | | | | Y | | | | | |
| 11-1697 SG42E | KSC-DP-22-GW-110126 | | | | | | DIS | | | | | | <u>.</u> | | Y | | | | | |
| 11-1698 SG42F | KSC-DP-23-GW-110126 | | | | | | DIS | | | | | | | | Y | | | | | |
| 11-1699 SG42G | KSC-DP-24-GW-110126 | | 1 | | | | DIS | | | | | | | | Y | | | | | |
| 11-1700 SG42H | KSC-DP-25b-GW-110126 | | | | | | DIS | | | | | | | | Y | | , | | | |

Checked By JM Date 1/27/11

Subject: Striker - revised COC sg42 From: "Kathryn Hartley" <khartley@landauinc.com> Date: Fri, 28 Jan 2011 11:13:33 -0800 To: Kelly Bottem <kellyb@arilabs.com> CC: "Tim Syverson" <tsyverson@landauinc.com>, Paul Raymaker <praymaker@landauinc.com>, Susan Dickerson <SDickerson@landauinc.com>

Kelly,

Per the attached revised COC, please archive sample KSC-DP-21-S-0-0.5-110126 and please analyze the trip blank for TPH-G in addition to VOCs.

Please confirm that you received this request and let me know if you have any questions.

Thanks, Kathryn

 Kathryn F. Hartley " Senior Project Scientist

 Landau Associates, Inc.

 130 2nd Ave. S, Edmonds, WA 98020

 425.778.0907 " direct 425.329.0268 " cell 425.248.7520

 khartley@landauinc.com " www.landauinc.com

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Striker_COC_sg42_rev012811.pdfContent-Description: Striker_COC_sg42_rev012811.pdfStriker_COC_sg42_rev012811.pdfContent-Type:application/pdfContent-Encoding:base64

added by KEH 1/28/11 Seattle/Edmonds (425) 778-0907 Tacoma (253) 926-2493 Date 1/26/2011 Spokane (509) 327-9737 LANDAU ASSOCIATES Portland (503) 542-1080 Page / of 2 Chain-of-Custody Record [] Project Name Striker Testing Parameters Project No. 025/95.003.032 Turnaround Time Standard Project Location/Event Kent, WA / Phase 11 Supplemental Accelerated Sampler's Name PRR / SED 11 Project Contact Tim Syverson, Kuthryn Hartlen Joe Flaherth (Boeing) Send Results To + Anne Hulvorsen No. of Observations/Comments Sample I.D. Date Time Matrix Containers. KS(-DP-31-GW-110126 1/26/1 0920 HzO * X Allow water samples to settle, collect H_O KSC-DP-32-6W-110126 0955 X aliquot from clear portion KSL- DP-33- GW-110126 X 1020 1+,0 X NWTPH-Dx - run acid wash/silica gel cleanup KSC-DP-Z1-GW-110126 3 1120 H.O Х 45C-DP-31-5-5-6-110126 0850 × Soil run samples standardized to KSC-DP-32-5-35-45-11014 X 0110 50.1 product 1951-01-33-57-5-7.5-11414G 0935 So.1 1 _ Analyze for EPH if no specific 1. 1. 1 KS(-D1-2+-5-0-05-11070 Soil 3 product identified 1040 X , Ar KSC-DP-21-5-3-3.5-110126 $\boldsymbol{\times}$ Sou 3 10US VOC/BTEX/VPH (soll): KSC-DP-21-5-2.5-3-110120 Se. 3 non-preserved 1050 ____ preserved w/methanol 134 KS(-08-2565-455-110126 XX 1310 50.1 preserved w/sodium bisulfate 1651-101-256-5-7-8-11012G 1474 1315 50,1 ____ Freeze upon receipt KSL- 08-24-5-6-7-110126 1400 Sr. ¥ Dissolved metal water samples field filtered × KS(-00-24-5-8-9-110126 1405 50. 2 Other Archie Sunghis not 451-DV-22-GW-110126 H2O XY 1515 5 necked for Gradys S K3(- NP-23-6W-10170 14,0 1540 5 4 ۴ K 1456-08-24-6-110170 H, O 1430 \checkmark 13000 KSL- NP-256-6W-110176 4,0 Special Shipment/Handling or Storage Requirements 1340 Method of deliver to ARI On Shipment Relinquisted by Received by **Relinguished by Received** by Signature Signature Signature Printed Name Printed Name Printed Name Printed Name Company Company Company Company Date 1/26/11 Time 1650 1/26/11 Time_165C Date Date Time Date _____ Time

| Ø Seattle/E □ Tacoma (A LANDAR □ Spokane | 253) 926-249 | 3 | | | | | | | | | | | | | | Date 1/26/2011 |
|---|------------------|--|------------------|---|--------------|----------|---------------------------------------|----------|------------|----------|----|--------------|----------|----|------|---|
| | 503) 542-108 | 0 | Ch | oin o | <i>+ (</i> | ` | - | d. | D | ~ ~ | | -l | | | | Date 1/26/2011 Page 2 of 2 |
| Project Name Strike (Project Location/Event Yuerf, (Sampler's Name PRR / S Project Contact Tim Syverse, Send Results To | ED ED | Projec seIS | ct No. <u>OZ</u> | Joe F/-1 | 2037 | 2 | | у | | | | | Para | me | ter | S Turnaround Time |
| Sample I.D. | Date | Time | | No. of Container: | | ¥ × | / / | | | | | | | | / | Observations/Comments |
| TB \$56-DP-25-GW-110126 | 1/20/n 1/26/4 | 1300 | 1tzu | 5 | λ | <u>×</u> | | | | | | | | | | <u>X</u> Allow water samples to settle, collect aliquot from clear portion <u>X</u> NWTPH-Dx - run acid wash/silica gel cleanup |
| | | ······································ | | · - · · · · · · · · · · · · · · · · · · | | | · · · · · · · · · · · · · · · · · · · | | | | | | · | | | run samples standardized to |
| | | | | + | | | | | - | <u> </u> | | | | | | Analyze for EPH if no specific product identified |
| | | | | | | | | | | | | | | | | VOC/BTEX/VPH (soil): non-preserved preserved w/methanol preserved w/sodium bisulfate Freeze upon receipt |
| · | | | | | | | | | | | | | | | | Dissolved metal water samples field filtered |
| | | | | | | | | | 1 | | | | | | | |
| Special Shipment/Handling or Storage Requirements | On ic | ૨ | | <u> </u> | | t. | | <u> </u> | <u> </u> | | | - 1 | | Me | etho | dot Pel, weed |
| Relinquished by | | Received | NY . | 10 | | , | Relin | quis | hed l | by | | | <u>`</u> | | | Received by |
| Signature Lhouse | k | ignature Jen | nifer | Mills | 20 | | Signat | ure | | | | | | | | Signature |
| Printed Name Company Printed Name A IZ Company | | | | _ | Printed Name | | | | | | | Printed Name | | | | |
| Date 1/26/11 Time 108 | | ate (/2) | 6/11 | Time <u>[[6</u> | 50 | | Date _ | - | | | Ti | me _ | | | | Date Time |

Subject: RE: SG59 - Confirmation From: "Kathryn Hartley" <khartley@landauinc.com> Date: Fri, 28 Jan 2011 14:19:10 -0800 To: Eric Branson <eric@arilabs.com> CC: Kelly Bottem <kellyb@arilabs.com>

Eric,

That is correct. We do not want to run the 0-0.5 sample (which is why additional sample was not collected). The 2.5-3 sample should be placed on hold and the 2.5-3 sample should be run for VOCs. The samples should have the same number. Everything looks correct.

I sent the attached revised COC to Kelly this morning as well. Please note that we are requesting analysis of the trip blank submitted 1/26/11 for TPH-G in addition to VOCs.

Let me know if you have any additional questions.

Thank you, Kathryn

Kathryn F. Hartley * Senior Project Scientist Landau Associates, Inc. 130 2nd Ave. S, Edmonds, WA 98020 425.778.0907 * direct 425.329.0268 * cell 425.248.7520 <u>khartley@landauinc.com</u> * <u>www.landauinc.com</u> Email is a sustainable communications tool - please consider this before printing. Notice: This communication may contain privileged or other confidential information. If you have received it in error, please advise the sender by reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

From: Eric Branson [mailto:eric@arilabs.com] Sent: Friday, January 28, 2011 1:39 PM To: Kathryn Hartley Cc: Kelly Bottem Subject: SG59 - Confirmation

Kathryn,

Can you take a look at this? To be honest, having not processed the paperwork from the first job myself, this is pretty confusing to me. It seems that the sample we didn't receive additional volume for is KSC-DP-21-S-0-0.5-110126. Hopefully that is the sample you didn't plan on running VOCs on. 21-S-2.5-3 is the sample we received VOC volume for, but is only on hold. 21-3-3.5 is the sample we we received additional volume for and is being run.

Resamples on 01/27 have 01/27 as the sample date, but retain the -110126 sample suffix to match the previously received volume.

Let me know if anything looks out of place before I give final approval to process the samples. Thanks.

-Eric-

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: KSC-DP-21-GW-110126

SAMPLE

Lab Sample ID: SG42D LIMS ID: 11-1696 Matrix: Water Data Release Authorized:

Instrument/Analyst: NT5/PAB Date Analyzed: 01/28/11 14:36 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

Sample Amount: 10.0 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|----------------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 0.5 | < 0.5 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 0.2 | < 0.2 | U |
| 75-00-3 | Chloroethane | 0.2 | < 0.2 | U |
| 75-09-2 | Methylene Chloride | 0.5 | 2.4 | |
| 67-64-1 | Acetone | 5.0 | 970 | Е |
| 75-15-0 | Carbon Disulfide | 0.2 | < 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.2 | < 0.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.2 | < 0.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 67-66-3 | Chloroform | 0.2 | < 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |
| 78-93-3 | 2-Butanone | 5.0 | 240 | Q |
| 71-55 - 6 | 1,1,1-Trichloroethane | 0.2 | < 0.2 | U |
| 56-23-5 | Carbon Tetrachloride | 0.2 | < 0.2 | U |
| 108-05-4 | Vinyl Acetate | 1.0 | < 1.0 | U |
| 75-27-4 | Bromodichloromethane | 0.2 | < 0.2 | U |
| 78-87 - 5 | 1,2-Dichloropropane | 0.2 | < 0.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 79-01-6 | Trichloroethene | 0.2 | 0.8 | |
| 124-48-1 | Dibromochloromethane | 0.2 | < 0.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.2 | < 0.2 | U |
| 71-43-2 | Benzene | 0.2 | 0.8 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 110-75-8 | 2-Chloroethylvinylether | 1.0 | < 1.0 | U |
| 75-25-2 | Bromoform | 0.2 | < 0.2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | 40 | |
| 591-78-6 | 2-Hexanone | 5.0 | 26 | Q |
| 127-18-4 | Tetrachloroethene | 0.2 | 0.2 | - |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 108-88-3 | Toluene | 0.2 | 1.6 | |
| 108-90-7 | Chlorobenzene | 0.2 | < 0.2 | U |
| 100-41-4 | Ethylbenzene | 0.2 | 0.3 | - |
| 100-42-5 | Styrene | 0.2 | 3.0 | |
| 75-69-4 | Trichlorofluoromethane | 0.2 | 0.6 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | | 3.4 | |
| 179601-23-1 | m,p-Xylene | 0.4 | 0.7 | |
| 95-47-6 | o-Xylene | 0.2 | 0.4 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.2 | < 0.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.2 | < 0.2 | U |
| | 1,4-Dichlorobenzene | 0.2 | < 0.2 | U |
| 106-46-7 | Acrolein | 5.0 | < 5.0 | U |
| 107-02-8 | ACTOTETII | 5.0 | < 5.0 | 0 |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

INCORPORATED Sample ID: KSC-DP-21-GW-110126 SAMPLE

ANALYTICAL RESOURCES

Lab Sample ID: SG42D LIMS ID: 11-1696 Matrix: Water Date Analyzed: 01/28/11 14:36 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 0.2 | < 0.2 | U |
| 107-13-1 | Acrylonitrile | 1.0 | < 1.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.2 | < 0.2 | U |
| 74-95-3 | Dibromomethane | 0.2 | < 0.2 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.5 | < 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | < 0.5 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 1.0 | < 1.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.2 | < 0.2 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.2 | < 0.2 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | < 0.5 | U |
| 106-93-4 | Ethylene Dibromide | 0.2 | < 0.2 | U |
| 74-97-5 | Bromochloromethane | 0.2 | < 0.2 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.2 | < 0.2 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.2 | < 0.2 | U |
| 98-82-8 | Isopropylbenzene | 0.2 | < 0.2 | U |
| 103-65-1 | n-Propylbenzene | 0.2 | < 0.2 | U |
| 108-86-1 | Bromobenzene | 0.2 | < 0.2 | U |
| 95-49-8 | 2-Chlorotoluene | 0.2 | < 0.2 | U |
| 106-43-4 | 4-Chlorotoluene | 0.2 | < 0.2 | U |
| 98-06-6 | tert-Butylbenzene | 0.2 | < 0.2 | U |
| 135-98-8 | sec-Butylbenzene | 0.2 | < 0.2 | U |
| 99-87-6 | 4-Isopropyltoluene | 0.2 | 0.4 | |
| 104-51-8 | n-Butylbenzene | 0.2 | < 0.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | < 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | 1.9 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | < 0.5 | U |

Reported in µg/L (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 94.98 |
|------------------------|-------|
| d8-Toluene | 99.9% |
| Bromofluorobenzene | 101% |
| d4-1,2-Dichlorobenzene | 98.9% |

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: KSC-DP-21-GW-110126 DILUTION

Lab Sample ID: SG42D LIMS ID: 11-1696 Matrix: Water Data Release Authorized: WW Reported: 02/02/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

Instrument/Analyst: NT5/PAB Date Analyzed: 01/30/11 14:08 Sample Amount: 1.00 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|-------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 5.0 | < 5.0 | υ |
| 74-83-9 | Bromomethane | 10 | < 10 | U |
| 75-01-4 | Vinyl Chloride | 2.0 | < 2.0 | U |
| 75-00-3 | Chloroethane | 2.0 | < 2.0 | U |
| 75-09-2 | Methylene Chloride | 5.0 | < 5.0 | U |
| 67-64-1 | Acetone | 50 | 980 | |
| 75-15-0 | Carbon Disulfide | 2.0 | < 2.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 2.0 | < 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 2.0 | < 2.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 2.0 | < 2.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 2.0 | < 2.0 | U |
| 67-66-3 | Chloroform | 2.0 | < 2.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 2.0 | < 2.0 | U |
| 78-93-3 | 2-Butanone | 50 | 220 | |
| 71-55-6 | 1,1,1-Trichloroethane | 2.0 | < 2.0 | U |
| 56-23-5 | Carbon Tetrachloride | 2.0 | < 2.0 | U |
| 108-05-4 | Vinyl Acetate | 10 | < 10 | U |
| 75-27-4 | Bromodichloromethane | 2.0 | < 2.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 2.0 | < 2.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.0 | < 2.0 | U |
| 79-01-6 | Trichloroethene | 2.0 | < 2.0 | U |
| 124-48-1 | Dibromochloromethane | 2.0 | < 2.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 2.0 | < 2.0 | U |
| 71-43-2 | Benzene | 2.0 | 2.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 2.0 | < 2.0 | U |
| 110-75-8 | 2-Chloroethylvinylether | 10 | < 10 | U |
| 75-25-2 | Bromoform | 2.0 | < 2.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 50 | < 50 | U |
| 591-78-6 | 2-Hexanone | 50 | < 50 | U |
| 127-18-4 | Tetrachloroethene | 2.0 | < 2.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.0 | < 2.0 | U |
| 108-88-3 | Toluene | 2.0 | < 2.0 | U |
| 108-90-7 | Chlorobenzene | 2.0 | < 2.0 | U |
| 100-41-4 | Ethylbenzene | 2.0 | < 2.0 | U |
| 100-42-5 | Styrene | 2.0 | < 2.0 | U |
| 75-69-4 | Trichlorofluoromethane | 2.0 | < 2.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | 2.0 | 2.9 | |
| 179601-23-1 | m,p-Xylene | 4.0 | < 4.0 | U |
| 95-47-6 | o-Xylene | 2.0 | < 2.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 2.0 | < 2.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2.0 | < 2.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2.0 | < 2.0 | U |
| 107-02-8 | Acrolein | 50 | < 50 | U |

ANALYTICAL RESOURCES

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: KSC-DP-21-GW-110126 DILUTION

Lab Sample ID: SG42D LIMS ID: 11-1696 Matrix: Water Date Analyzed: 01/30/11 14:08 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 10 | < 10 | U |
| 74-96-4 | Bromoethane | 2.0 | < 2.0 | U |
| 107-13-1 | Acrylonitrile | 10 | < 10 | U |
| 563-58-6 | 1,1-Dichloropropene | 2.0 | < 2.0 | U |
| 74-95-3 | Dibromomethane | 2.0 | < 2.0 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2.0 | < 2.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.0 | < 5.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | < 5.0 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 10 | < 10 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2.0 | < 2.0 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.0 | < 2.0 | U |
| 87-68-3 | Hexachlorobutadiene | 5.0 | < 5.0 | U |
| 106-93-4 | Ethylene Dibromide | 2.0 | < 2.0 | U |
| 74-97-5 | Bromochloromethane | 2.0 | < 2.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 2.0 | < 2.0 | U |
| 142-28-9 | 1,3-Dichloropropane | 2.0 | < 2.0 | U |
| 98-82-8 | Isopropylbenzene | 2.0 | < 2.0 | U |
| 103-65-1 | n-Propylbenzene | 2.0 | < 2.0 | U |
| 108-86-1 | Bromobenzene | 2.0 | < 2.0 | U |
| 95-49-8 | 2-Chlorotoluene | 2.0 | < 2.0 | U |
| 106-43-4 | 4-Chlorotoluene | 2.0 | < 2.0 | U |
| 98-06-6 | tert-Butylbenzene | 2.0 | < 2.0 | U |
| 135-98-8 | sec-Butylbenzene | 2.0 | < 2.0 | U |
| 99-87-6 | 4-Isopropyltoluene | 2.0 | < 2.0 | U |
| 104-51-8 | n-Butylbenzene | 2.0 | < 2.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | < 5.0 | U |
| 91-20-3 | Naphthalene | 5.0 | < 5.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | < 5.0 | U |

Reported in µg/L (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 97.6% |
|------------------------|-------|
| d8-Toluene | 99.2% |
| Bromofluorobenzene | 93.6% |
| d4-1,2-Dichlorobenzene | 99.4% |



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: TB SAMPLE

Lab Sample ID: SG42P LIMS ID: 11-1708 Matrix: Water Data Release Authorized: WW Reported: 02/02/11

Instrument/Analyst: NT5/PAB Date Analyzed: 01/28/11 15:04 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

Sample Amount: 10.0 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|-------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 0.5 | < 0.5 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 0.2 | < 0.2 | U |
| 75-00-3 | Chloroethane | 0.2 | < 0.2 | U |
| 75-09-2 | Methylene Chloride | 0.5 | < 0.5 | U |
| 67-64-1 | Acetone | 5.0 | < 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.2 | < 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.2 | < 0.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.2 | < 0.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 67-66-3 | Chloroform | 0.2 | < 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |
| 78-93-3 | 2-Butanone | 5.0 | < 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.2 | < 0.2 | U |
| 56-23-5 | Carbon Tetrachloride | 0.2 | < 0.2 | U |
| 108-05-4 | Vinyl Acetate | 1.0 | < 1.0 | U |
| 75-27-4 | Bromodichloromethane | 0.2 | < 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.2 | < 0.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 79-01-6 | Trichloroethene | 0.2 | < 0.2 | U |
| 124-48-1 | Dibromochloromethane | 0.2 | < 0.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.2 | < 0.2 | U |
| 71-43-2 | Benzene | 0.2 | < 0.2 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 110-75-8 | 2-Chloroethylvinylether | 1.0 | < 1.0 | U |
| 75-25-2 | Bromoform | 0.2 | < 0.2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | < 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | < 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.2 | < 0.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 108-88-3 | Toluene | 0.2 | < 0.2 | U |
| 108-90-7 | Chlorobenzene | 0.2 | < 0.2 | U |
| 100-41-4 | Ethylbenzene | 0.2 | < 0.2 | U |
| 100-42-5 | Styrene | 0.2 | < 0.2 | U |
| 75-69-4 | Trichlorofluoromethane | 0.2 | < 0.2 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | 0.2 | < 0.2 | U |
| 179601-23-1 | m,p-Xylene | 0.4 | < 0.4 | U |
| 95-47-6 | o-Xylene | 0.2 | < 0.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.2 | < 0.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.2 | < 0.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.2 | < 0.2 | U |
| 107-02-8 | Acrolein | 5.0 | < 5.0 | U |



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: TB SAMPLE

Lab Sample ID: SG42P LIMS ID: 11-1708 Matrix: Water Date Analyzed: 01/28/11 15:04 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | υ |
| 74-96-4 | Bromoethane | 0.2 | < 0.2 | U |
| 107-13-1 | Acrylonitrile | 1.0 | < 1.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.2 | < 0.2 | U |
| 74-95-3 | Dibromomethane | 0.2 | < 0.2 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.5 | < 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | < 0.5 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 1.0 | < 1.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.2 | < 0.2 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.2 | < 0.2 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | < 0.5 | U |
| 106-93-4 | Ethylene Dibromide | 0.2 | < 0.2 | U |
| 74-97-5 | Bromochloromethane | 0.2 | < 0.2 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.2 | < 0.2 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.2 | < 0.2 | U |
| 98-82-8 | Isopropylbenzene | 0.2 | < 0.2 | U |
| 103-65-1 | n-Propylbenzene | 0.2 | < 0.2 | U |
| 108-86-1 | Bromobenzene | 0.2 | < 0.2 | U |
| 95-49-8 | 2-Chlorotoluene | 0.2 | < 0.2 | U |
| 106-43-4 | 4-Chlorotoluene | 0.2 | < 0.2 | U |
| 98-06-6 | tert-Butylbenzene | 0.2 | < 0.2 | U |
| 135-98-8 | sec-Butylbenzene | 0.2 | < 0.2 | U |
| 99-87-6 | 4-Isopropyltoluene | 0.2 | < 0.2 | U |
| 104-51-8 | n-Butylbenzene | 0.2 | < 0.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | < 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | < 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | < 0.5 | U |

Reported in µg/L (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 96.1% |
|------------------------|-------|
| d8-Toluene | 98.5% |
| Bromofluorobenzene | 93.3% |
| d4-1,2-Dichlorobenzene | 98.5% |

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.



Matrix: Water

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| ARI ID | Client ID | PV | DCE | TOL | BFB | DCB | TOT OUT | |
|--------------------------------|---------------------|---------------|-------|-------|-----------|-------|---------|--|
| MB-013011 | Method Blank | 10 | 97.9% | 96.3% | 93.6% | 00 5% | 0 | |
| LCS-013011 Lab Control | | | 96.68 | | | 98.5% | 0 | |
| | | 10 | | 98.08 | 96.1% | 96.9% | 0 | |
| LCSD-013011 Lab Control Dup | | 10 | 95.2% | 98.3% | 97.5% | 96.4% | 0 | |
| SG42D | KSC-DP-21-GW-110126 | 10 | 94.9% | 99.9% | 101% | 98.9% | 0 | |
| SG42DDL | KSC-DP-21-GW-110126 | 10 | 97.6% | 99.2% | 93.6% | 99.4% | 0 | |
| SG42DMS | KSC-DP-21-GW-110126 | 10 | 96.5% | 98.5% | 97.8% | 98.0% | 0 | |
| SG42DMSD | KSC-DP-21-GW-110126 | 10 | 95.1% | 98.2% | 101% | 97.5% | 0 | |
| MB-012811 | Method Blank | 10 | 109% | 99.8% | 98.0% | 96.0% | 0 | |
| LCS-012811 | Lab Control | 10 | 105% | 100% | 104% | 96.1% | 0 | |
| LCSD-012811 | Lab Control Dup | 10 | 105% | 101% | 102% | 96.1% | 0 | |
| SG42P | ТВ | 10 | 96.1% | 98.5% | 93.3% | 98.5% | 0 | |
| | | LCS/MB LIMITS | | | QC LIMITS | | | |
| SW8260C | | | | | | | | |
| (DCE) = d4-1, 2-Dichloroethane | | 80-120 | | | 80-120 | | | |
| (TOL) = d8-Toluene | | 80-120 | | | 80-120 | | | |
| (BFB) = Bromofluorobenzene | | 80-120 | | | 80-120 | | | |
| (DCB) = d4-1,2-Dichlorobenzene | | 80-120 | | | 80-120 | | | |

Prep Method: SW5030B Log Number Range: 11-1696 to 11-1708

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

mple ID: KSC-DP-21-GW-11012 MATRIX SPIKE

Lab Sample ID: SG42D LIMS ID: 11-1696 Matrix: Water Data Release Authorized: WW Reported: 02/02/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

MSD: 10.0 mL

Instrument/Analyst MS: NT5/PAB MSD: NT5/PAB Date Analyzed MS: 01/30/11 18:13 MSD: 01/30/11 18:40

Date Received: 01/26/11 Sample Amount MS: 1.00 mL MSD: 1.00 mL Purge Volume MS: 10.0 mL

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|-----------------------------|----------|------|-------------------|----------------|------|--------------------|-----------------|--------------|
| | | | | | | | - | |
| Chloromethane | < 5.0 U | 84.9 | 100 | 84.9% | 89.3 | 100 | 89.3% | 5.1% |
| Bromomethane | < 10.0 U | 101 | 100 | 101% | 107 | 100 | 107% | 5.8% |
| Vinyl Chloride | < 2.0 U | 90.2 | 100 | 90.2% | 94.7 | 100 | 94.7% | 4.98 |
| Chloroethane | < 2.0 U | 101 | 100 | 101% | 108 | 100 | 108% | 6.7% |
| Methylene Chloride | < 5.0 U | 107 | 100 | 107% | 107 | 100 | 107% | 0.0% |
| Acetone | 975 | 1550 | 500 | 115% | 1580 | 500 | 121% | 1.9% |
| Carbon Disulfide | < 2.0 U | 98.4 | 100 | 98.4% | 96.3 | 100 | 96.3% | 2.2% |
| 1,1-Dichloroethene | < 2.0 U | 105 | 100 | 105% | 99.8 | 100 | 99.8% | 5.1% |
| 1,1-Dichloroethane | < 2.0 U | 98.4 | 100 | 98.4% | 99.6 | 100 | 99.6% | 1.2% |
| trans-1,2-Dichloroethene | < 2.0 U | 97.8 | 100 | 97.8% | 99.9 | 100 | 99.9% | 2.1% |
| cis-1,2-Dichloroethene | < 2.0 U | 101 | 100 | 101% | 102 | 100 | 102% | 1.0% |
| Chloroform | < 2.0 U | 98.2 | 100 | 98.2% | 99.3 | 100 | 99.3% | 1.1% |
| 1,2-Dichloroethane | < 2.0 U | 95.6 | 100 | 95.6% | 97.9 | 100 | 97.9% | 2.4% |
| 2-Butanone | 224 | 796 | 500 | 114% | 814 | 500 | 118% | 2.2% |
| 1,1,1-Trichloroethane | < 2.0 U | 97.7 | 100 | 97.7% | 97.9 | 100 | 97.9% | 0.2% |
| Carbon Tetrachloride | < 2.0 U | 97.3 | 100 | 97.3% | 97.1 | 100 | 97.1% | 0.2% |
| Vinyl Acetate | < 10.0 U | 92.1 | 100 | 92.1% | 99.0 | 100 | 99.0% | 7.2% |
| Bromodichloromethane | < 2.0 U | 97.3 | 100 | 97.3% | 98.4 | 100 | 98.4% | 1.1% |
| 1,2-Dichloropropane | < 2.0 U | 96.1 | 100 | 96.1% | 98.0 | 100 | 98.0% | 2.0% |
| cis-1,3-Dichloropropene | < 2.0 U | 98.3 | 100 | 98.3% | 100 | 100 | 100% | 1.7% |
| Trichloroethene | < 2.0 U | 97.5 | 100 | 97.5% | 96.5 | 100 | 96.5% | 1.0% |
| Dibromochloromethane | < 2.0 U | 98.3 | 100 | 98.3% | 98.9 | 100 | 98.9% | 0.6% |
| 1,1,2-Trichloroethane | < 2.0 U | 103 | 100 | 103% | 104 | 100 | 104% | 1.0% |
| Benzene | 2.0 | 105 | 100 | 103% | 104 | 100 | 104% | 0.9% |
| trans-1,3-Dichloropropene | < 2.0 U | 101 | 100 | 101% | 101 | 100 | 101% | 0.0% |
| 2-Chloroethylvinylether | < 10.0 U | 83.4 | 100 | 83.4% | 82.1 | 100 | 82.1% | 1.6% |
| Bromoform | < 2.0 U | 100 | 100 | 100% | 97.6 | 100 | 97.6% | 2.4% |
| 4-Methyl-2-Pentanone (MIBK) | | 646 | 500 | 129% | 676 | 500 | 135% | 4.5% |
| 2-Hexanone | < 50.0 U | 644 | 500 | 129% | 678 | 500 | 136% | 4.5° 5.1% |
| Tetrachloroethene | < 2.0 U | 91.7 | 100 | 91.7% | 90.7 | 100 | 90.7% | 1.1% |
| 1,1,2,2-Tetrachloroethane | < 2.0 U | 102 | 100 | 102% | | | | |
| Toluene | < 2.0 U | 102 | 100 | | 103 | 100 | 103% | 1.0% |
| Chlorobenzene | - | | | 103% | 102 | 100 | 102% | 1.0% |
| | < 2.0 U | 102 | 100 | 102% | 102 | 100 | 102% | 0.0% |
| Ethylbenzene | < 2.0 U | 101 | 100 | 101% | 101 | 100 | 101% | 0.0% |
| Styrene | < 2.0 U | 112 | 100 | 112% | 112 | 100 | 112% | 0.0% |
| Trichlorofluoromethane | < 2.0 U | 97.2 | 100 | 97.2% | 94.9 | 100 | 94.9% | 2.4% |
| 1,1,2-Trichloro-1,2,2-trifl | | 99.9 | 100 | 97.0% | 101 | 100 | 98.1% | 1.1% |
| m,p-Xylene | < 4.0 U | 215 | 200 | 108% | 213 | 200 | 106% | 0.98 |
| o-Xylene | < 2.0 U | 104 | 100 | 104% | 105 | 100 | 105% | 1.0% |
| 1,2-Dichlorobenzene | < 2.0 U | 101 | 100 | 101% | 99.6 | 100 | 99.6% | 1.4% |
| 1,3-Dichlorobenzene | < 2.0 U | 100 | 100 | 100% | 98.1 | 100 | 98.1% | 1.9% |
| 1,4-Dichlorobenzene | < 2.0 U | 100 | 100 | 100% | 98.0 | 100 | 98.0% | 2.0% |
| Acrolein | < 50.0 U | 594 | 500 | 119% | 632 | 500 | 126% | 6.2% |
| Methyl Iodide | < 10.0 U | 130 | 100 | 130% | 131 | 100 | 131% | 0.8% |
| Bromoethane | < 2.0 U | 111 | 100 | 111% | 107 | 100 | 107% | 3.7% |
| Acrylonitrile | < 10.0 U | 97.0 | 100 | 97.0% | 101 | 100 | 101% | 4.0% |
| 1,1-Dichloropropene | < 2.0 U | 96.6 | 100 | 96.6% | 98.1 | 100 | 98.1% | 1.5% |

Sample ID: KSC-DP-21-GW-110126

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2 Sample ID: KSC-DP-21-GW-110126 MATRIX SPIKE

Lab Sample ID: SG42D LIMS ID: 11-1696 Matrix: Water

,

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|-----------------------------|----------|------|-------------------|----------------|------|--------------------|-----------------|------|
| Dibromomethane | < 2.0 U | 97.7 | 100 | 97.7% | 97.6 | 100 | 97.6% | 0.1% |
| 1,1,1,2-Tetrachloroethane | < 2.0 U | 102 | 100 | 102% | 101 | 100 | 101% | 1.0% |
| 1,2-Dibromo-3-chloropropane | < 5.0 U | 99.9 | 100 | 99.9% | 101 | 100 | 101% | 1.1% |
| 1,2,3-Trichloropropane | < 5.0 U | 103 | 100 | 103% | 103 | 100 | 103% | 0.0% |
| trans-1,4-Dichloro-2-butene | < 10.0 U | 97.7 | 100 | 97.7% | 90.1 | 100 | 90.1% | 8.1% |
| 1,3,5-Trimethylbenzene | < 2.0 U | 105 | 100 | 105% | 103 | 100 | 103% | 1.9% |
| 1,2,4-Trimethylbenzene | < 2.0 U | 106 | 100 | 106% | 104 | 100 | 104% | 1.9% |
| Hexachlorobutadiene | < 5.0 U | 91.1 | 100 | 91.1% | 90.7 | 100 | 90.7% | 0.4% |
| Ethylene Dibromide | < 2.0 U | 100 | 100 | 100% | 102 | 100 | 102% | 2.0% |
| Bromochloromethane | < 2.0 U | 101 | 100 | 101% | 95.4 | 100 | 95.4% | 5.7% |
| 2,2-Dichloropropane | < 2.0 U | 90.3 | 100 | 90.3% | 89.8 | 100 | 89.8% | 0.6% |
| 1,3-Dichloropropane | < 2.0 U | 97.5 | 100 | 97.5% | 100 | 100 | 100% | 2.5% |
| Isopropylbenzene | < 2.0 U | 105 | 100 | 105% | 104 | 100 | 104% | 1.0% |
| n-Propylbenzene | < 2.0 U | 102 | 100 | 102% | 101 | 100 | 101% | 1.0% |
| Bromobenzene | < 2.0 U | 98.2 | 100 | 98.2% | 95.0 | 100 | 95.0% | 3.3% |
| 2-Chlorotoluene | < 2.0 U | 102 | 100 | 102% | 101 | 100 | 101% | 1.0% |
| 4-Chlorotoluene | < 2.0 U | 105 | 100 | 105% | 102 | 100 | 102% | 2.9% |
| tert-Butylbenzene | < 2.0 U | 104 | 100 | 104% | 103 | 100 | 103% | 1.0% |
| sec-Butylbenzene | < 2.0 U | 105 | 100 | 105% | 103 | 100 | 103% | 1.9% |
| 4-Isopropyltoluene | < 2.0 U | 106 | 100 | 106% | 105 | 100 | 105% | 0.9% |
| n-Butylbenzene | < 2.0 U | 103 | 100 | 103% | 102 | 100 | 102% | 1.0% |
| 1,2,4-Trichlorobenzene | < 5.0 U | 99.6 | 100 | 99.6% | 99.9 | 100 | 99.9% | 0.3% |
| Naphthalene | < 5.0 U | 119 | 100 | 119% | 124 | 100 | 124% | 4.1% |
| 1,2,3-Trichlorobenzene | < 5.0 U | 111 | 100 | 111% | 113 | 100 | 113% | 1.8% |

Reported in $\mu g/L$ (ppb)

RPD calculated using sample concentrations per SW846. Recoveries calculated from secondary analysis.



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Lab Sample ID: SG42D LIMS ID: 11-1696 Matrix: Water Data Release Authorized: WWW Reported: 02/02/11

Instrument/Analyst: NT5/PAB Date Analyzed: 01/30/11 18:13 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

Sample ID: KSC-DP-21-GW-110126

MATRIX SPIKE

Sample Amount: 1.00 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|-------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 5.0 | | |
| 74-83-9 | Bromomethane | 10 | | |
| 75-01-4 | Vinyl Chloride | 2.0 | | |
| 75-00-3 | Chloroethane | 2.0 | | |
| 75-09-2 | Methylene Chloride | 5.0 | | |
| 67-64-1 | Acetone | 50 | | |
| 75-15-0 | Carbon Disulfide | 2.0 | | |
| 75-35-4 | 1,1-Dichloroethene | 2.0 | | |
| 75-34-3 | 1,1-Dichloroethane | 2.0 | | |
| 156-60-5 | trans-1,2-Dichloroethene | 2.0 | | |
| 156-59-2 | cis-1,2-Dichloroethene | 2.0 | | |
| 67-66-3 | Chloroform | 2.0 | | |
| 107-06-2 | 1,2-Dichloroethane | 2.0 | | |
| 78-93-3 | 2-Butanone | 50 | | |
| 71-55-6 | 1,1,1-Trichloroethane | 2.0 | | |
| 56-23-5 | Carbon Tetrachloride | 2.0 | | |
| 108-05-4 | Vinyl Acetate | 10 | | |
| 75-27-4 | Bromodichloromethane | 2.0 | | |
| 78-87-5 | 1,2-Dichloropropane | 2.0 | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.0 | | |
| 79-01-6 | Trichloroethene | 2.0 | | |
| 124-48-1 | Dibromochloromethane | 2.0 | | |
| 79-00-5 | 1,1,2-Trichloroethane | 2.0 | | |
| 71-43-2 | Benzene | 2.0 | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 2.0 | | |
| 110-75-8 | 2-Chloroethylvinylether | 10 | | |
| 75-25-2 | Bromoform | 2.0 | | |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 50 | | |
| 591-78-6 | 2-Hexanone | 50 | | |
| 127-18-4 | Tetrachloroethene | 2.0 | | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.0 | | |
| 108-88-3 | Toluene | 2.0 | | |
| 108-90-7 | Chlorobenzene | 2.0 | | |
| 100-41-4 | Ethylbenzene | 2.0 | | |
| 100-42-5 | Styrene | 2.0 | | |
| 75-69-4 | Trichlorofluoromethane | 2.0 | | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | 2.0 | | |
| 179601-23-1 | m,p-Xylene | 4.0 | | |
| 95-47-6 | o-Xylene | 2.0 | | |
| 95-50-1 | 1,2-Dichlorobenzene | 2.0 | | |
| 541-73-1 | 1,3-Dichlorobenzene | 2.0 | | |
| 106-46-7 | 1,4-Dichlorobenzene | 2.0 | | |
| 107-02-8 | Acrolein | 50 | | |
| | | | | |

ANALYTICAL RESOURCES

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: KSC-DP-21-GW-110126 MATRIX SPIKE

Lab Sample ID: SG42D LIMS ID: 11-1696 Matrix: Water Date Analyzed: 01/30/11 18:13 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result Q |
|------------|-----------------------------|-----|----------|
| 74-88-4 | Methyl Iodide | 10 | |
| 74-96-4 | Bromoethane | 2.0 | |
| 107-13-1 | Acrylonitrile | 10 | |
| 563-58-6 | 1,1-Dichloropropene | 2.0 | |
| 74-95-3 | Dibromomethane | 2.0 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2.0 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.0 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2.0 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.0 | |
| 87-68-3 | Hexachlorobutadiene | 5.0 | |
| 106-93-4 | Ethylene Dibromide | 2.0 | |
| 74-97-5 | Bromochloromethane | 2.0 | |
| 594-20-7 | 2,2-Dichloropropane | 2.0 | |
| 142-28-9 | 1,3-Dichloropropane | 2.0 | |
| 98-82-8 | Isopropylbenzene | 2.0 | |
| 103-65-1 | n-Propylbenzene | 2.0 | |
| 108-86-1 | Bromobenzene | 2.0 | |
| 95-49-8 | 2-Chlorotoluene | 2.0 | |
| 106-43-4 | 4-Chlorotoluene | 2.0 | |
| 98-06-6 | tert-Butylbenzene | 2.0 | |
| 135-98-8 | sec-Butylbenzene | 2.0 | |
| 99-87-6 | 4-Isopropyltoluene | 2.0 | |
| 104-51-8 | n-Butylbenzene | 2.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | |
| 91-20-3 | Naphthalene | 5.0 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | |

Reported in µg/L (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 96.5% |
|------------------------|-------|
| d8-Toluene | 98.5% |
| Bromofluorobenzene | 97.8% |
| d4-1,2-Dichlorobenzene | 98.0% |

ANALYTICAL RESOURCES

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: KSC-DP-21-GW-110126 MATRIX SPIKE DUP

Lab Sample ID: SG42D LIMS ID: 11-1696 Matrix: Water Data Release Authorized: WW Reported: 02/02/11

Instrument/Analyst: NT5/PAB Date Analyzed: 01/30/11 18:40 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

Sample Amount: 1.00 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|-------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 5.0 | | |
| 74-83-9 | Bromomethane | 10 | | |
| 75-01-4 | Vinyl Chloride | 2.0 | | |
| 75-00-3 | Chloroethane | 2.0 | | |
| 75-09-2 | Methylene Chloride | 5.0 | | |
| 67-64-1 | Acetone | 50 | | |
| 75-15-0 | Carbon Disulfide | 2.0 | | |
| 75-35-4 | 1,1-Dichloroethene | 2.0 | | |
| 75-34-3 | 1,1-Dichloroethane | 2.0 | | |
| 156-60-5 | trans-1,2-Dichloroethene | 2.0 | | |
| 156-59-2 | cis-1,2-Dichloroethene | 2.0 | | |
| 67-66-3 | Chloroform | 2.0 | | |
| 107-06-2 | 1,2-Dichloroethane | 2.0 | | |
| 78-93-3 | 2-Butanone | 50 | | |
| 71-55-6 | 1,1,1-Trichloroethane | 2.0 | | |
| 56-23-5 | Carbon Tetrachloride | 2.0 | | |
| 108-05-4 | Vinyl Acetate | 10 | | |
| 75-27-4 | Bromodichloromethane | 2.0 | | |
| 78-87-5 | 1,2-Dichloropropane | 2.0 | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.0 | | |
| 79-01-6 | Trichloroethene | 2.0 | | |
| 124-48-1 | Dibromochloromethane | 2.0 | | |
| 79-00-5 | 1,1,2-Trichloroethane | 2.0 | | |
| 71-43-2 | Benzene | 2.0 | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 2.0 | | |
| 110-75-8 | 2-Chloroethylvinylether | 10 | | |
| 75-25-2 | Bromoform | 2.0 | | |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 50 | | |
| 591-78-6 | 2-Hexanone | 50 | | |
| 127-18-4 | Tetrachloroethene | 2.0 | | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.0 | | |
| 108-88-3 | Toluene | 2.0 | | |
| 108-90-7 | Chlorobenzene | 2.0 | | |
| 100-41-4 | Ethylbenzene | 2.0 | | |
| 100-42-5 | Styrene | 2.0 | | |
| 75-69-4 | Trichlorofluoromethane | 2.0 | | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | 2.0 | | |
| 179601-23-1 | m,p-Xylene | 4.0 | | |
| 95-47-6 | o-Xylene | 2.0 | | |
| 95-50-1 | 1,2-Dichlorobenzene | 2.0 | | |
| 541-73-1 | 1,3-Dichlorobenzene | 2.0 | | |
| 106-46-7 | 1,4-Dichlorobenzene | 2.0 | | |
| 107-02-8 | Acrolein | 50 | | |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

INCORPORATED Sample ID: KSC-DP-21-GW-110126 MATRIX SPIKE DUP

ANALYTICAL RESOURCES

Lab Sample ID: SG42D LIMS ID: 11-1696 Matrix: Water Date Analyzed: 01/30/11 18:40 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result Q |
|------------|-----------------------------|-----|----------|
| 74-88-4 | Methyl Iodide | 10 | |
| 74-96-4 | Bromoethane | 2.0 | |
| 107-13-1 | Acrylonitrile | 10 | |
| 563-58-6 | 1,1-Dichloropropene | 2.0 | |
| 74-95-3 | Dibromomethane | 2.0 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2.0 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.0 | |
| 96-18-4 | 1,2,3-Trichloropropane | 5.0 | |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2.0 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.0 | |
| 87-68-3 | Hexachlorobutadiene | 5.0 | |
| 106-93-4 | Ethylene Dibromide | 2.0 | |
| 74-97-5 | Bromochloromethane | 2.0 | |
| 594-20-7 | 2,2-Dichloropropane | 2.0 | |
| 142-28-9 | 1,3-Dichloropropane | 2.0 | |
| 98-82-8 | Isopropylbenzene | 2.0 | |
| 103-65-1 | n-Propylbenzene | 2.0 | |
| 108-86-1 | Bromobenzene | 2.0 | |
| 95-49-8 | 2-Chlorotoluene | 2.0 | |
| 106-43-4 | 4-Chlorotoluene | 2.0 | |
| 98-06-6 | tert-Butylbenzene | 2.0 | |
| 135-98-8 | sec-Butylbenzene | 2.0 | |
| 99-87-6 | 4-Isopropyltoluene | 2.0 | |
| 104-51-8 | n-Butylbenzene | 2.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | |
| 91-20-3 | Naphthalene | 5.0 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | |

Reported in µg/L (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 95.1% |
|------------------------|-------|
| d8-Toluene | 98.2% |
| Bromofluorobenzene | 101% |
| d4-1,2-Dichlorobenzene | 97.5% |



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Lab Sample ID: LCS-012811 LIMS ID: 11-1708 Matrix: Water Data Release Authorized: NW Reported: 02/02/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

Sample ID: LCS-012811

LAB CONTROL SAMPLE

Instrument/Analyst LCS: NT5/PAB LCSD: NT5/PAB Date Analyzed LCS: 01/28/11 10:20 LCSD: 01/28/11 10:47 Sample Amount LCS: 10.0 mL LCSD: 10.0 mL Purge Volume LCS: 10.0 mL LCSD: 10.0 mL

| | | Spike | LCS | | Spike | LCSD | |
|-------------------------------------|--------|--------------|--------------|----------------|--------------|--------------|--------------|
| Analyte | LCS | Added-LCS | Recovery | LCSD | Added-LCSD | Recovery | RPD |
| Chloromethane | 10.2 | 10.0 | 102% | 10.4 | 10.0 | 104% | 1.9% |
| Bromomethane | 10.9 | 10.0 | 109% | 11.3 | 10.0 | 113% | 3.6% |
| Vinyl Chloride | 10.6 | 10.0 | 106% | 10.8 | 10.0 | 108% | 1.9% |
| Chloroethane | 11.8 | 10.0 | 118% | 12.0 | 10.0 | 120% | 1.7% |
| Methylene Chloride | 10.5 | 10.0 | 105% | 10.6 | 10.0 | 106% | 0.98 |
| Acetone | 53.3 | 50.0 | 107% | 54.5 | 50.0 | 109% | 2.2% |
| Carbon Disulfide | 11.0 | 10.0 | 110% | 11.1 | 10.0 | 111% | 0.98 |
| 1,1-Dichloroethene | 9.9 | 10.0 | 99.0% | 10.2 | 10.0 | 102% | 3.0% |
| 1,1-Dichloroethane | 10.6 | 10.0 | 106% | 10.5 | 10.0 | 105% | 0.9% |
| trans-1,2-Dichloroethene | 10.0 | 10.0 | 100% | 9.8 | 10.0 | 98.0% | 2.0% |
| cis-1,2-Dichloroethene | 10.3 | 10.0 | 103% | 10.4 | 10.0 | 104% | 1.0% |
| Chloroform | 10.1 | 10.0 | 101% | 10.2 | 10.0 | 102% | 1.0% |
| 1,2-Dichloroethane | 9.3 | 10.0 | 93.0% | 9.8 | 10.0 | 98.0% | 5.2% |
| 2-Butanone | 58.1 Q | 50.0 | 116% | 59.3 Q | 50.0 | 119% | 2.0% |
| 1,1,1-Trichloroethane | 9.9 | 10.0 | 99.0% | 10.0 | 10.0 | 100% | 1.0% |
| Carbon Tetrachloride | 9.2 | 10.0 | 92.0% | 9.2 | 10.0 | 92.0% | 0.0% |
| Vinyl Acetate | 10.8 | 10.0 | 108% | 11.2 | 10.0 | 112% | 3.6% |
| Bromodichloromethane | 9.6 | 10.0 | 96.0% | 9.8 | 10.0 | 98.0% | 2.1% |
| 1,2-Dichloropropane | 10.1 | 10.0 | 101% | 10.4 | 10.0 | 104% | 2.9% |
| cis-1,3-Dichloropropene | 10.3 | 10.0 | 103% | 10.6 | 10.0 | 106% | 2.9% |
| Trichloroethene | 9.1 | 10.0 | 91.0% | 9.3 | 10.0 | 93.0% | 2.2% |
| Dibromochloromethane | 9.4 | 10.0 | 94.0% | 9.5 | 10.0 | 95.0% | 1.1% |
| 1,1,2-Trichloroethane | 9.8 | 10.0 | 98.0% | 9.9 | 10.0 | 99.0% | 1.0% |
| Benzene | 10.1 | 10.0 | 101% | 10.3 | 10.0 | 103% | 2.0% |
| trans-1,3-Dichloropropene | 10.1 | 10.0 | 101% | 10.2 | 10.0 | 102% | 1.0% |
| 2-Chloroethylvinylether | 9.3 | 10.0 | 93.0% | 9.8 | 10.0 | 98.0% | 5.2% |
| Bromoform | 9.6 | 10.0 | 96.0% | 9.8 | 10.0 | 98.0% | 2.1% |
| 4-Methyl-2-Pentanone (MIBK) | 56.4 | 50.0 | 113% | 57.9 | 50.0 | 116% | 2.6% |
| 2-Hexanone | 60.9 Q | 50.0 | 122% | 61.8 Q | 50.0 | 124% | 1.5% |
| Tetrachloroethene | 8.6 | 10.0 | 86.0% | 8.7 | 10.0 | 87.0% | 1.2% |
| 1,1,2,2-Tetrachloroethane | 10.1 | 10.0 | 101% | 10.2 | 10.0 | 102% | 1.0% |
| Toluene | 9.6 | 10.0 | 96.0% | 9.9 | 10.0 | 99.0% | 3.1% |
| Chlorobenzene | 9.8 | 10.0 | 98.0% | 9.9 | 10.0 | 99.0% | 1.0% |
| Ethylbenzene | 9.7 | 10.0 | 97.0% | 9.9 | 10.0 | 99.0% | 2.0% |
| Styrene | 10.8 | 10.0 | 108% | 10.6 | 10.0 | 106% | 1.9% |
| Trichlorofluoromethane | 9.6 | 10.0 | 96.0% | 9.9 | 10.0 | 99.0% | 3.1% |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | 9.9 | 10.0 | 99.0% | 10.0 | 10.0 | 100% | 1.0% |
| m,p-Xylene | 20.3 | 20.0 | 102% | 20.2 | 20.0 | 101% | 0.5% |
| o-Xylene | 10.0 | 10.0 | 100% | 10.1 | 10.0 | 101% | 1.0% |
| 1,2-Dichlorobenzene | 9.4 | 10.0 | 94.0% | 9.6 | 10.0 | 96.0% | 2.1% |
| 1,3-Dichlorobenzene | 9.5 | 10.0 | 95.0% | 9.6 | 10.0 | 96.0% | 1.0% |
| 1,4-Dichlorobenzene | 9.5 | 10.0 | 95.0% | 9.6 | 10.0 | 96.0% | 1.0% |
| Acrolein | | | | | | | |
| | 65.4 Q | 50.0 | 131% | 65.8 Q | 50.0 | 132% | 0.6% |
| Methyl Iodide | | 50.0 10.0 | 131% 120% | 65.8 Q 12.1 | 50.0 10.0 | 132% 121% | 0.6% 0.8% |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: LCS-012811 LAB CONTROL SAMPLE

Lab Sample ID: LCS-012811 LIMS ID: 11-1708 Matrix: Water

.

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Becovery | RPD |
|-----------------------------|------|--------------------|-----------------|------|---------------------|------------------|------|
| | | | | | | | |
| Acrylonitrile | 10.9 | 10.0 | 109% | 10.8 | 10.0 | 108% | 0.9% |
| 1,1-Dichloropropene | 10.1 | 10.0 | 101% | 10.3 | 10.0 | 103% | 2.0% |
| Dibromomethane | 9.6 | 10.0 | 96.0% | 9.7 | 10.0 | 97.0% | 1.0% |
| 1,1,1,2-Tetrachloroethane | 9.6 | 10.0 | 96.0% | 9.7 | 10.0 | 97.0% | 1.0% |
| 1,2-Dibromo-3-chloropropane | 9.2 | 10.0 | 92.0% | 9.4 | 10.0 | 94.0% | 2.2% |
| 1,2,3-Trichloropropane | 10.0 | 10.0 | 100% | 10.1 | 10.0 | 101% | 1.0% |
| trans-1,4-Dichloro-2-butene | 9.6 | 10.0 | 96.0% | 9.8 | 10.0 | 98.0% | 2.1% |
| 1,3,5-Trimethylbenzene | 10.6 | 10.0 | 106% | 10.7 | 10.0 | 107% | 0.9% |
| 1,2,4-Trimethylbenzene | 10.7 | 10.0 | 107% | 10.8 | 10.0 | 108% | 0.9% |
| Hexachlorobutadiene | 8.2 | 10.0 | 82.0% | 8.7 | 10.0 | 87.0% | 5.9% |
| Ethylene Dibromide | 9.6 | 10.0 | 96.0% | 9.8 | 10.0 | 98.0% | 2.1% |
| Bromochloromethane | 9.3 | 10.0 | 93.0% | 9.4 | 10.0 | 94.0% | 1.1% |
| 2,2-Dichloropropane | 10.1 | 10.0 | 101% | 10.1 | 10.0 | 101% | 0.0% |
| 1,3-Dichloropropane | 10.1 | 10.0 | 101% | 10.1 | 10.0 | 101% | 0.0% |
| Isopropylbenzene | 10.7 | 10.0 | 107% | 10.8 | 10.0 | 108% | 0.9% |
| n-Propylbenzene | 10.5 | 10.0 | 105% | 10.6 | 10.0 | 106% | 0.9% |
| Bromobenzene | 9.2 | 10.0 | 92.0% | 9.4 | 10.0 | 94.0% | 2.2% |
| 2-Chlorotoluene | 10.6 | 10.0 | 106% | 10.7 | 10.0 | 107% | 0.9% |
| 4-Chlorotoluene | 10.7 | 10.0 | 107% | 10.8 | 10.0 | 108% | 0.9% |
| tert-Butylbenzene | 10.3 | 10.0 | 103% | 10.4 | 10.0 | 104% | 1.0% |
| sec-Butylbenzene | 9.1 | 10.0 | 91.0% | 9.1 | 10.0 | 91.0% | 0.0% |
| 4-Isopropyltoluene | 10.5 | 10.0 | 105% | 10.6 | 10.0 | 106% | 0.9% |
| n-Butylbenzene | 10.8 | 10.0 | 108% | 10.9 | 10.0 | 109% | 0.98 |
| 1,2,4-Trichlorobenzene | 9.0 | 10.0 | 90.0% | 9.2 | 10.0 | 92.0% | 2.2% |
| Naphthalene | 10.0 | 10.0 | 100% | 10.4 | 10.0 | 104% | 3.9% |
| 1,2,3-Trichlorobenzene | 9.2 | 10.0 | 92.0% | 9.4 | 10.0 | 94.0% | 2.2% |

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

| | LCS | LCSD |
|------------------------|-------|-------|
| d4-1,2-Dichloroethane | 105% | 105% |
| d8-Toluene | 100% | 101% |
| Bromofluorobenzene | 104% | 102% |
| d4-1,2-Dichlorobenzene | 96.1% | 96.1% |





ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: LCS-013011 LAB CONTROL SAMPLE

Lab Sample ID: LCS-013011 LIMS ID: 11-1696 Matrix: Water Data Release Authorized: WW Reported: 02/02/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

| Instrument/Analyst LCS: NT5/PAB | Sample Amount LCS: | 10.0 mL |
|-----------------------------------|--------------------|---------|
| LCSD: NT5/PAB | LCSD: | 10.0 mL |
| Date Analyzed LCS: 01/30/11 11:56 | Purge Volume LCS: | 10.0 mL |
| LCSD: 01/30/11 12:23 | LCSD: | 10.0 mL |

| Analyte | LCS | Spike Added-LCS | LCS | LCSD | Spike Added-LCSD | LCSD | RPD |
|-------------------------------------|------|--------------------|----------|------|---------------------|--------------|--------------|
| | 100 | | Recovery | 1030 | Added-TC3D | Kecovery | KED |
| Chloromethane | 8.8 | 10.0 | 88.0% | 8.7 | 10.0 | 87.0% | 1.1% |
| Bromomethane | 10.3 | 10.0 | 103% | 10.7 | 10.0 | 107% | 3.8% |
| Vinyl Chloride | 9.3 | 10.0 | 93.0% | 9.4 | 10.0 | 94.0% | 1.1% |
| Chloroethane | 10.4 | 10.0 | 104% | 10.5 | 10.0 | 105% | 1.0% |
| Methylene Chloride | 10.2 | 10.0 | 102% | 10.0 | 10.0 | 100% | 2.0% |
| Acetone | 46.0 | 50.0 | 92.0% | 45.2 | 50.0 | 90.4% | 1.8% |
| Carbon Disulfide | 10.5 | 10.0 | 105% | 10.8 | 10.0 | 108% | 2.8% |
| 1,1-Dichloroethene | 10.8 | 10.0 | 108% | 10.1 | 10.0 | 101% | 6.7% |
| 1,1-Dichloroethane | 9.8 | 10.0 | 98.0% | 9.9 | 10.0 | 99.0% | 1.0% |
| trans-1,2-Dichloroethene | 9.9 | 10.0 | 99.0% | 9.9 | 10.0 | 99.0% | 0.0% |
| cis-1,2-Dichloroethene | 10.2 | 10.0 | 102% | 10.0 | 10.0 | 100% | 2.0% |
| Chloroform | 9.8 | 10.0 | 98.0% | 9.8 | 10.0 | 98.0% | 0.0% |
| 1,2-Dichloroethane | 9.5 | 10.0 | 95.0% | 9.7 | 10.0 | 97.0% | 2.1% |
| 2-Butanone | 47.4 | 50.0 | 94.8% | 47.7 | 50.0 | 95.4% | 0.6% |
| 1,1,1-Trichloroethane | 9.9 | 10.0 | 99.0% | 9.8 | 10.0 | 98.0% | 1.0% |
| Carbon Tetrachloride | 9.7 | 10.0 | 97.0% | 9.7 | 10.0 | 97.0% | 0.0% |
| Vinyl Acetate | 9.1 | 10.0 | 91.0% | 9.2 | 10.0 | 92.0% | 1.1% |
| Bromodichloromethane | 9.6 | 10.0 | 96.0% | 9.7 | 10.0 | 97.0% | 1.0% |
| L,2-Dichloropropane | 9.4 | 10.0 | 94.0% | 9.7 | 10.0 | 97.0% | 3.1% |
| cis-1,3-Dichloropropene | 10.1 | 10.0 | 101% | 10.2 | 10.0 | 102% | 1.0% |
| Trichloroethene | 9.6 | 10.0 | 96.0% | 9.6 | 10.0 | 96.0% | 0.0% |
| Dibromochloromethane | 9.7 | 10.0 | 97.0% | 9.8 | 10.0 | 98.0% | 1.0% |
| 1,1,2-Trichloroethane | 9.8 | 10.0 | 98.0% | 9.8 | 10.0 | 98.0% | 0.0% |
| Benzene | 10.2 | 10.0 | 102% | 10.3 | 10.0 | 103% | 1.0% |
| trans-1,3-Dichloropropene | 9.8 | 10.0 | 98.0% | 10.0 | 10.0 | 100% | 2.0% |
| 2-Chloroethylvinylether | 8.6 | 10.0 | 86.0% | 8.7 | 10.0 | 87.0% | 1.2% |
| Bromoform | 10.1 | 10.0 | 101% | 10.0 | 10.0 | 100% | 1.0% |
| 4-Methyl-2-Pentanone (MIBK) | 50.6 | 50.0 | 101% | 51.1 | 50.0 | 102% | 1.0% |
| 2-Hexanone | 50.8 | 50.0 | 102% | 51.4 | 50.0 | 102% | 1.2% |
| Tetrachloroethene | 9.4 | 10.0 | 94.0% | 9.5 | 10.0 | 95.0% | 1.1% |
| 1,1,2,2-Tetrachloroethane | 9.8 | 10.0 | 98.0% | 9.6 | 10.0 | 96.0% | 2.1% |
| Foluene | 10.0 | 10.0 | 100% | 10.1 | 10.0 | 101% | 1.0% |
| Chlorobenzene | 10.0 | 10.0 | 102% | 10.1 | 10.0 | 101% | 0.0% |
| Sthylbenzene | 10.2 | 10.0 | 102% | 10.2 | 10.0 | 102% | 0.0% |
| Styrene | 11.2 | 10.0 | 112% | 10.2 | 10.0 | 113% | 0.0% |
| Frichlorofluoromethane | 9.8 | 10.0 | 98.0% | 10.0 | 10.0 | 100% | 2.08 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | 10.2 | 10.0 | 102% | 9.7 | 10.0 | 97.0% | 2.0% |
| | 21.6 | 20.0 | 102% | 21.6 | | | - |
| n,p-Xylene >-Xylene | 10.4 | 10.0 | 104% | 10.3 | 20.0 | 108% | 0.0% |
| ,2-Dichlorobenzene | 10.4 | 10.0 | 1048 | 10.3 | 10.0 | 103% 101% | 1.0% 2.0% |
| 1,3-Dichlorobenzene | 10.3 | | 1038 | | 10.0 | | |
| , 4-Dichlorobenzene | | 10.0 | | 10.3 | 10.0 | 103% | 0.0% |
| Acrolein | 10.3 | 10.0 | 103% | 10.3 | 10.0 | 103% | 0.0% |
| | 58.8 | 50.0 | 118% | 59.4 | 50.0 | 119% | 1.0% |
| Methyl Iodide | 13.0 | 10.0 | 130% | 13.1 | 10.0 | 131% | 0.8% |
| Bromoethane | 11.1 | 10.0 | 111% | 10.6 | 10.0 | 106% | 4.6% |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2



Sample ID: LCS-013011 LAB CONTROL SAMPLE

Lab Sample ID: LCS-013011 LIMS ID: 11-1696 Matrix: Water

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| Analyte | LCS | Spike Added-LCS | LCS | LCSD | Spike | LCSD | 200 |
|-----------------------------|------|--------------------|----------|------|------------|----------|------|
| | | Added-TC3 | Kecovery | LCSD | Added-LCSD | кесочету | RPD |
| Acrylonitrile | 8.8 | 10.0 | 88.0% | 8.8 | 10.0 | 88.0% | 0.0% |
| 1,1-Dichloropropene | 9.9 | 10.0 | 99.0% | 10.0 | 10.0 | 100% | 1.0% |
| Dibromomethane | 9.5 | 10.0 | 95.0% | 9.5 | 10.0 | 95.0% | 0.0% |
| 1,1,1,2-Tetrachloroethane | 10.0 | 10.0 | 100% | 10.0 | 10.0 | 100% | 0.0% |
| 1,2-Dibromo-3-chloropropane | 8.6 | 10.0 | 86.0% | 9.0 | 10.0 | 90.0% | 4.5% |
| 1,2,3-Trichloropropane | 9.7 | 10.0 | 97.0% | 9.8 | 10.0 | 98.0% | 1.0% |
| trans-1,4-Dichloro-2-butene | 10.8 | 10.0 | 108% | 10.8 | 10.0 | 108% | 0.0% |
| 1,3,5-Trimethylbenzene | 11.0 | 10.0 | 110% | 10.9 | 10.0 | 109% | 0.9% |
| 1,2,4-Trimethylbenzene | 11.1 | 10.0 | 111% | 11.1 | 10.0 | 111% | 0.0% |
| Hexachlorobutadiene | 9.4 | 10.0 | 94.0% | 9.5 | 10.0 | 95.0% | 1.1% |
| Ethylene Dibromide | 9.7 | 10.0 | 97.0% | 9.7 | 10.0 | 97.0% | 0.0% |
| Bromochloromethane | 10.1 | 10.0 | 101% | 10.1 | 10.0 | 101% | 0.0% |
| 2,2-Dichloropropane | 9.7 | 10.0 | 97.0% | 9.6 | 10.0 | 96.0% | 1.0% |
| 1,3-Dichloropropane | 9.6 | 10.0 | 96.0% | 9.7 | 10.0 | 97.0% | 1.0% |
| Isopropylbenzene | 11.0 | 10.0 | 110% | 11.0 | 10.0 | 110% | 0.0% |
| n-Propylbenzene | 10.8 | 10.0 | 108% | 10.7 | 10.0 | 107% | 0.9% |
| Bromobenzene | 10.0 | 10.0 | 100% | 9.9 | 10.0 | 99.0% | 1.0% |
| 2-Chlorotoluene | 10.6 | 10.0 | 106% | 10.6 | 10.0 | 106% | 0.0% |
| 4-Chlorotoluene | 10.9 | 10.0 | 109% | 10.8 | 10.0 | 108% | 0.9% |
| tert-Butylbenzene | 10.7 | 10.0 | 107% | 10.7 | 10.0 | 107% | 0.0% |
| sec-Butylbenzene | 11.0 | 10.0 | 110% | 11.0 | 10.0 | 110% | 0.0% |
| 4-Isopropyltoluene | 11,1 | 10.0 | 111% | 11.1 | 10.0 | 111% | 0.0% |
| n-Butylbenzene | 10.8 | 10.0 | 108% | 10.9 | 10.0 | 109% | 0.9% |
| 1,2,4-Trichlorobenzene | 9.6 | 10.0 | 96.0% | 9.8 | 10.0 | 98.0% | 2.1% |
| Naphthalene | 10.1 | 10.0 | 101% | 10.2 | 10.0 | 102% | 1.0% |
| 1,2,3-Trichlorobenzene | 10.0 | 10.0 | 100% | 10.2 | 10.0 | 102% | 2.0% |

Reported in $\mu g/L$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

| | LCS | LCSD |
|------------------------|-------|-------|
| d4-1,2-Dichloroethane | 96.6% | 95.2% |
| d8-Toluene | 98.0% | 98.3% |
| Bromofluorobenzene | 96.1% | 97.5% |
| d4-1,2-Dichlorobenzene | 96.9% | 96.4% |



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ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: MB-013011 METHOD BLANK

Lab Sample ID: MB-013011 LIMS ID: 11-1696 Matrix: Water Data Release Authorized: WWW Reported: 02/02/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

Instrument/Analyst: NT5/PAB Date Analyzed: 01/30/11 13:14 Sample Amount: 10.0 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 0.5 | < 0.5 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | υ |
| 75-01-4 | Vinyl Chloride | 0.2 | < 0.2 | U |
| 75-00-3 | Chloroethane | 0.2 | < 0.2 | U |
| 75-09-2 | Methylene Chloride | 0.5 | < 0.5 | U |
| 67-64-1 | Acetone | 5.0 | < 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.2 | < 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.2 | < 0.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.2 | < 0.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 67-66-3 | Chloroform | 0.2 | < 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |
| 78-93-3 | 2-Butanone | 5.0 | < 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.2 | < 0.2 | U |
| 56-23-5 | Carbon Tetrachloride | 0.2 | < 0.2 | U |
| 108-05-4 | Vinyl Acetate | 1.0 | < 1.0 | U |
| 75-27-4 | Bromodichloromethane | 0.2 | < 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.2 | < 0.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 79-01-6 | Trichloroethene | 0.2 | < 0.2 | U |
| 124-48-1 | Dibromochloromethane | 0.2 | < 0.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.2 | < 0.2 | U |
| 71-43-2 | Benzene | 0.2 | < 0.2 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 110-75-8 | 2-Chloroethylvinylether | 1.0 | < 1.0 | U |
| 75-25-2 | Bromoform | 0.2 | < 0.2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | < 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | < 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.2 | < 0.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 108-88-3 | Toluene | 0.2 | < 0.2 | U |
| 108-90-7 | Chlorobenzene | 0.2 | < 0.2 | U |
| 100-41-4 | Ethylbenzene | 0.2 | < 0.2 | U |
| 100-42-5 | Styrene | 0.2 | < 0.2 | U |
| 75-69-4 | Trichlorofluoromethane | 0.2 | < 0.2 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | | < 0.2 | U |
| 179601-23-1 | m,p-Xylene | 0.4 | < 0.4 | U |
| 95-47 - 6 | o-Xylene | 0.2 | < 0.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.2 | < 0.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.2 | < 0.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.2 | < 0.2 | U |
| 107-02-8 | Acrolein | 5.0 | < 5.0 | U |



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: MB-013011 METHOD BLANK

Lab Sample ID: MB-013011 LIMS ID: 11-1696 Matrix: Water Date Analyzed: 01/30/11 13:14

i.

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 0.2 | < 0.2 | U |
| 107-13-1 | Acrylonitrile | 1.0 | < 1.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.2 | < 0.2 | U |
| 74-95-3 | Dibromomethane | 0.2 | < 0.2 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.5 | < 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | < 0.5 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 1.0 | < 1.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.2 | < 0.2 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.2 | < 0.2 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | < 0.5 | U |
| 106-93-4 | Ethylene Dibromide | 0.2 | < 0.2 | U |
| 74-97-5 | Bromochloromethane | 0.2 | < 0.2 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.2 | < 0.2 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.2 | < 0.2 | U |
| 98-82-8 | Isopropylbenzene | 0.2 | < 0.2 | U |
| 103-65-1 | n-Propylbenzene | 0.2 | < 0.2 | U |
| 108-86-1 | Bromobenzene | 0.2 | < 0.2 | U |
| 95-49-8 | 2-Chlorotoluene | 0.2 | < 0.2 | U |
| 106-43-4 | 4-Chlorotoluene | 0.2 | < 0.2 | U |
| 98-06-6 | tert-Butylbenzene | 0.2 | < 0.2 | U |
| 135-98-8 | sec-Butylbenzene | 0.2 | < 0.2 | U |
| 99-87-6 | 4-Isopropyltoluene | 0.2 | < 0.2 | U |
| 104-51-8 | n-Butylbenzene | 0.2 | < 0.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | < 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | < 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | < 0.5 | U |

Reported in µg/L (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 97.9% |
|------------------------|-------|
| d8-Toluene | 96.3% |
| Bromofluorobenzene | 93.6% |
| d4-1,2-Dichlorobenzene | 98.5% |



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: MB-012811 METHOD BLANK

Lab Sample ID: MB-012811 LIMS ID: 11-1708 Matrix: Water Data Release Authorized: WW Reported: 02/02/11

Instrument/Analyst: NT5/PAB Date Analyzed: 01/28/11 11:14 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

Sample Amount: 10.0 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------------|----------------------------------|-------------|--------|---|
| 74-87-3 | Chloromethane | 0.5 | < 0.5 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 0.2 | < 0.2 | U |
| 75-00-3 | Chloroethane | 0.2 | < 0.2 | U |
| 75-09-2 | Methylene Chloride | 0.5 | < 0.5 | U |
| 67-64-1 | Acetone | 5.0 | < 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.2 | < 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.2 | < 0.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.2 | < 0.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 67-66-3 | Chloroform | 0.2 | < 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |
| 78-93-3 | 2-Butanone | 5.0 | < 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.2 | < 0.2 | U |
| 56-23-5 | Carbon Tetrachloride | 0.2 | < 0.2 | U |
| 108-05-4 | Vinyl Acetate | 1.0 | < 1.0 | U |
| 75-27-4 | Bromodichloromethane | 0.2 | < 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.2 | < 0.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 79-01-6 | Trichloroethene | 0.2 | < 0.2 | U |
| 124-48-1 | Dibromochloromethane | 0.2 | < 0.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.2 | < 0.2 | U |
| 71-43-2 | Benzene | 0.2 | < 0.2 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 110-75-8 | 2-Chloroethylvinylether | 1.0 | < 1.0 | U |
| 75-25-2 | Bromoform | 0.2 | < 0.2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | < 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | < 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.2 | < 0.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 108-88-3 | Toluene | 0.2 | < 0.2 | U |
| 108-90-7 | Chlorobenzene | 0.2 | < 0.2 | U |
| 100-41-4 | Ethylbenzene | 0.2 | < 0.2 | U |
| 100-42-5 | Styrene | 0.2 | < 0.2 | U |
| 75-69-4 | Trichlorofluoromethane | 0.2 | < 0.2 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | 0.2 | < 0.2 | U |
| 179601-23-1 | m,p-Xylene | 0.4 | < 0.4 | U |
| 95-47-6 | o-Xylene | 0.2 | < 0.2 | U |
| 95-50 - 1 | 1,2-Dichlorobenzene | 0. <u>2</u> | < 0.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.2 | < 0.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.2 | < 0.2 | U |
| 107-02-8 | Acrolein | 5.0 | < 5.0 | υ |



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: MB-012811 METHOD BLANK

Lab Sample ID: MB-012811 LIMS ID: 11-1708 Matrix: Water Date Analyzed: 01/28/11 11:14 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 0.2 | < 0.2 | U |
| 107-13-1 | Acrylonitrile | 1.0 | < 1.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.2 | < 0.2 | U |
| 74-95-3 | Dibromomethane | 0.2 | < 0.2 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.5 | < 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | < 0.5 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 1.0 | < 1.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.2 | < 0.2 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.2 | < 0.2 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | < 0.5 | U |
| 106-93-4 | Ethylene Dibromide | 0.2 | < 0.2 | U |
| 74-97-5 | Bromochloromethane | 0.2 | < 0.2 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.2 | < 0.2 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.2 | < 0.2 | U |
| 98-82-8 | Isopropylbenzene | 0.2 | < 0.2 | U |
| 103-65-1 | n-Propylbenzene | 0.2 | < 0.2 | U |
| 108-86-1 | Bromobenzene | 0.2 | < 0.2 | U |
| 95-49-8 | 2-Chlorotoluene | 0.2 | < 0.2 | U |
| 106-43-4 | 4-Chlorotoluene | 0.2 | < 0.2 | U |
| 98-06-6 | tert-Butylbenzene | 0.2 | < 0.2 | U |
| 135-98-8 | sec-Butylbenzene | 0.2 | < 0.2 | U |
| 99-87-6 | 4-Isopropyltoluene | 0.2 | < 0.2 | U |
| 104-51-8 | n-Butylbenzene | 0.2 | < 0.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | < 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | < 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | < 0.5 | U |

Reported in µg/L (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 109% |
|------------------------|-------|
| d8-Toluene | 99.8% |
| Bromofluorobenzene | 98.0% |
| d4-1,2-Dichlorobenzene | 96.0% |



ORGANICS ANALYSIS DATA SHEET TPHG by Method NWTPHG Matrix: Water

Data Release Authorized: Reported: 02/07/11

QC Report No: SG42-Landau Associates, Inc. Project: Striker Event: 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

| ARI ID | Client ID | Analysis Date | DL | Range | Result |
|----------------------|----------------------|------------------|-----|--|--------------------------------------|
| MB-020211 11-1697 | Method Blank | 02/02/11 PID2 | 1.0 | Gasoline HC ID Trifluorotoluene | < 0.10 U 94.4% |
| | | | | Bromobenzene | 94.48 |
| SG42E 11-1697 | KSC-DP-22-GW-110126 | 02/02/11 PID2 | 1.0 | Gasoline HC ID | < 0.10 U |
| 11-1097 | | EID2 | | nc ID Trifluorotoluene Bromobenzene | 98.5% 96.9% |
| SG42F 11-1698 | KSC-DP-23-GW-110126 | 02/02/11 PID2 | 1.0 | Gasoline HC ID | < 0.10 U |
| 11 1090 | | 1 102 | | Trifluorotoluene Bromobenzene | 99.6% 96.3% |
| SG42G 11-1699 | KSC-DP-24-GW-110126 | 02/02/11 PID2 | 1.0 | Gasoline HC ID Trifluorotoluene Bromobenzene | 0.35 GRO 97.7% 94.3% |
| SG42H 11-1700 | KSC-DP-25b-GW-110126 | 02/02/11 PID2 | 1.0 | Gasoline HC ID Trifluorotoluene Bromobenzene | 0.38 GRO 98.2% 94.8% |
| SG42P 11-1708 | ТВ | 02/02/11 PID2 | 1.0 | Gasoline HC ID Trifluorotoluene Bromobenzene | < 0.10 U 101% 98.8% |

Gasoline values reported in mg/L (ppm)

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline. GRO: Positive result that does not match an identifiable gasoline pattern.



TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: SG42 Matrix: Water QC Report No: SG42-Landau Associates, Inc. Project: Striker Event: 025195.003.032

| Client ID | TFT | BBZ | TOT OUT |
|--------------------|-------|-------|---------|
| MB-020211 | 94.4% | 94.48 | 0 |
| LCS-020211 | 98.2% | 99.98 | . 0 |
| LCSD-020211 | 98.5% | 98.98 | 0 |
| KSC-DP-22-GW-11012 | 98.5% | 96.9% | 0 |
| KSC-DP-23-GW-11012 | 99.6% | 96.3% | 0 |
| KSC-DP-24-GW-11012 | 97.7% | 94.3% | 0 |
| KSC-DP-25b-GW-1101 | 98.2% | 94.8% | 0 |
| ТВ | 101% | 98.8% | 0 |

| | LCS/MB LIMITS | QC LIMITS |
|--------------------------|---------------|------------|
| (TFT) = Trifluorotoluene | (80-120) | (80 - 120) |
| (BBZ) = Bromobenzene | (80-120) | (80 - 120) |

Log Number Range: 11-1697 to 11-1708

FORM II TPHG

Page 1 for SG42

ORGANICS ANALYSIS DATA SHEET TPHG by Method NWTPHG Page 1 of 1



Sample ID: LCS-020211 LAB CONTROL SAMPLE

Lab Sample ID: LCS-020211 LIMS ID: 11-1697 Matrix: Water Data Release Authorized:

Date Analyzed LCS: 02/02/11 06:37 LCSD: 02/02/11 07:05 Instrument/Analyst LCS: PID2/MH LCSD: PID2/MH QC Report No: SG42-Landau Associates, Inc. Project: Striker Event: 025195.003.032 Date Sampled: NA Date Received: NA

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0 LCSD: 1.0

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|-----------------------------|-------|--------------------|-----------------|------|---------------------|------------------|------|
| Gasoline Range Hydrocarbons | 1.00 | 1.00 | 100% | 0.99 | 1.00 | 99.0% | 1.0% |
| | Repor | ted in mg, | /L (ppm) | | | | |

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

| | LCS | LCSD |
|------------------|-------|-------|
| Trifluorotoluene | 98.2% | 98.5% |
| Bromobenzene | 99.9% | 98.9% |

ORGANICS ANALYSIS DATA SHEET TPHG by Method NWTPHG Matrix: Water

Data Release Authorized:

Reported: 02/08/11



QC Report No: SG42-Landau Associates, Inc. Project: Striker Event: 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

Analysis ARI ID Client ID Date DL Range Result SG42P ТΒ 02/02/11 1.0 Gasoline < 0.10 U 11-1708 PID2 HC ID _ _ _ Trifluorotoluene 101% Bromobenzene 98.8%

Gasoline values reported in mg/L (ppm)

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline. GRO: Positive result that does not match an identifiable gasoline pattern.



TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: SG42 Matrix: Water QC Report No: SG42-Landau Associates, Inc. Project: Striker Event: 025195.003.032

| Client ID | TFT | BBZ | TOT OUT |
|-----------|------|-------|---------|
| TB | 101% | 98.8% | 0 |

| | LCS/MB LIMITS | QC LIMITS |
|--------------------------|---------------|-----------|
| (TFT) = Trifluorotoluene | (80-120) | (80-120) |
| (BBZ) = Bromobenzene | (80-120) | (80-120) |

Log Number Range: 11-1708 to 11-1708

FORM II TPHG

Page 1 for SG42



ORGANICS ANALYSIS DATA SHEET TPHG by Method NWTPHG Matrix: Soil

Data Release Authorized: /

Reported: 02/08/11

QC Report No: SG42-Landau Associates, Inc. Project: Striker Event: 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

| ARI ID | Client ID | Analysis Date | Basis | Range | Result |
|----------------------|---------------------------|------------------|-------|--|------------------------------------|
| MB-020211 11-1706 | Method Blank | 02/02/11 PID2 | Dry | Gasoline HC ID Trifluorotoluene Bromobenzene | < 5.0 U 94.4% 94.4% |
| SG42N 11-1706 | KSC-DP-25b-S-4.5-5-110126 | 02/02/11 PID2 | Dry | Gasoline HC ID Trifluorotoluene Bromobenzene | 56 GRO 98.9% 108% |
| SG420 11-1707 | KSC-DP-24-S-6-7-110126 | 02/02/11 PID2 | Dry | Gasoline HC ID Trifluorotoluene Bromobenzene | 790 GRO 95.1% 110% |

Gasoline values reported in mg/kg (ppm)

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline. GRO: Positive result that does not match an identifiable gasoline pattern.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.



TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: SG42 Matrix: Soil QC Report No: SG42-Landau Associates, Inc. Project: Striker Event: 025195.003.032

| Client ID | BFB | TFT | BBZ | TOT OUT |
|-------------------------|-----|-------|-------|---------|
| MB-020211 | NA | 94.4% | 94.48 | 0 |
| LCS-020211 | NA | 98.2% | 99.9% | 0 |
| LCSD-020211 | NA | 98.5% | 98.9% | 0 |
| KSC-DP-25b-S-4.5-5-1101 | NA | 98.9% | 108% | 0 |
| KSC-DP-24-S-6-7-110126 | NA | 95.1% | 110% | 0 |

| , | LCS/MB LIMITS | QC LIMITS |
|----------------------------|---------------|-----------|
| (BFB) = Bromofluorobenzene | (70-130) | (70-130) |
| (TFT) = Trifluorotoluene | (80-120) | (66-123) |
| (BBZ) = Bromobenzene | (80-120) | (62-130) |

Log Number Range: 11-1706 to 11-1707

FORM II TPHG

Page 1 for SG42

ORGANICS ANALYSIS DATA SHEET TPHG by Method NWTPHG Page 1 of 1



Sample ID: LCS-020211 LAB CONTROL SAMPLE

Lab Sample ID: LCS-020211 LIMS ID: 11-1706 Matrix: Soil Data Release Authorized: Reported: 02/08/11

Date Analyzed LCS: 02/02/11 06:37 LCSD: 02/02/11 07:05 Instrument/Analyst LCS: PID2/MH LCSD: PID2/MH QC Report No: SG42-Landau Associates, Inc. Project: Striker Event: 025195.003.032 Date Sampled: NA Date Received: NA

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt LCSD: 100 mg-dry-wt

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|-----------------------------|--------|--------------------|-----------------|------|---------------------|------------------|------|
| Gasoline Range Hydrocarbons | 50.2 | 50.0 | 100% | 49.5 | 50.0 | 99.0% | 1.4% |
| | Report | ted in mg/k | (ppm) | | | | |

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

| | LCS | LCSD |
|------------------|-------|-------|
| Trifluorotoluene | 98.2% | 98.5% |
| Bromobenzene | 99.9% | 98.98 |

ORGANICS ANALYSIS DATA SHEET TOTAL DIESEL RANGE HYDROCARBONS



NWTPHD by GC/FID-Silica and Acid Cleaned Page 1 of 1 Matrix: Water

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

Data Release Authorized: // Reported: 02/02/11

| ARI ID | Sample ID | Extraction Date | Analysis Date | EFV DL | Range | RL | Result |
|----------------------|---|--------------------|------------------|-------------|---|---------------------|----------------------------------|
| MB-012811 11-1697 | Method Blank HC ID: | 01/28/11 | 02/01/11 FID9 | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.10 0.20 | < 0.10 U < 0.20 U 79.8% |
| SG42E 11-1697 | KSC-DP-22-GW-1101 HC ID: | 26 01/28/11 | 02/02/11 FID9 | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.11 0.22 | < 0.11 U < 0.22 U 84.7% |
| SG42F 11-1698 | KSC-DP-23-GW-1101 HC ID: | 26 01/28/11 | 02/02/11 FID9 | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.10 0.21 | < 0.10 U < 0.21 U 77.6% |
| SG42G 11-1699 | KSC-DP-24-GW-1101 HC ID: | 26 01/28/11 | 02/02/11 FID9 | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.11 0.21 | < 0.11 U < 0.21 U 74.7% |
| SG42H 11-1700 | KSC-DP-25b-GW-110 HC ID: DIESEL | 126 01/28/11 | 02/02/11 FID9 | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 0.11 0.21 | 0.20 < 0.21 ∪ 78.5% |

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL. DL-Dilution of extract prior to analysis. RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24. Motor Oil quantitation on total peaks in the range from C24 to C38. HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.



CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

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| Client ID | OTER | TOT OUT |
|----------------------|-------|---------|
| MB-012811 | 79.88 | 0 |
| LCS-012811 | 83.3% | 0 |
| LCSD-012811 | 83.4% | 0 |
| KSC-DP-22-GW-110126 | 84.7% | 0 |
| KSC-DP-23-GW-110126 | 77.6% | 0 |
| KSC-DP-24-GW-110126 | 74.7% | 0 |
| KSC-DP-25b-GW-110126 | 78.5% | 0 |

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl (53-123) (49-118)

Prep Method: SW3510C Log Number Range: 11-1697 to 11-1700

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ORGANICS ANALYSIS DATA SHEET NWTPHD by GC/FID-Silica and Acid Cleaned Page 1 of 1

Sample ID: LCS-012811 LCS/LCSD

Lab Sample ID: LCS-012811 LIMS ID: 11-1697 Matrix: Water Data Release Authorized:

Date Extracted LCS/LCSD: 01/28/11

Date Analyzed LCS: 02/01/11 20:37 LCSD: 02/01/11 20:59 Instrument/Analyst LCS: FID/MS LCSD: FID/MS QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

Sample Amount LCS: 500 mL LCSD: 500 mL Final Extract Volume LCS: 1.0 mL LCSD: 1.0 mL Dilution Factor LCS: 1.00 LCSD: 1.00

| Range | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|--------|------|--------------------|-----------------|------|---------------------|------------------|------|
| Diesel | 2.26 | 3.00 | 75.3% | 2.21 | 3.00 | 73.7% | 2.2% |

TPHD Surrogate Recovery

| | LCS | LCSD |
|-------------|-------|-------|
| o-Terphenyl | 83.3% | 83.4% |

Results reported in mg/L RPD calculated using sample concentrations per SW846.



TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

| | | ARI Job: | SG42 |
|----------------|----------|----------|----------------|
| Matrix: Water | | Project: | Striker |
| Date Received: | 01/26/11 | | 025195.003.032 |

| ARI ID | Client ID | Samp Amt | Final Vol | Prep Date |
|---------------------|---------------------|-------------|--------------|--------------|
| 11-1697-012811MB1 | Method Blank | 500 mL | 1.00 mL | 01/28/11 |
| 11-1697-012811LCS1 | Lab Control | 500 mL | 1.00 mL | 01/28/11 |
| 11-1697-012811LCSD1 | Lab Control Dup | 500 mL | 1.00 mL | 01/28/11 |
| 11-1697-SG42E | KSC-DP-22-GW-110126 | | 1.00 mL | 01/28/11 |
| 11-1698-SG42F | KSC-DP-23-GW-110126 | 470 mL | 1.00 mL | 01/28/11 |
| 11-1699-SG42G | KSC-DP-24-GW-110126 | | 1.00 mL | 01/28/11 |
| 11-1700-SG42H | KSC-DP-25b-GW-11012 | | 1.00 mL | 01/28/11 |

ORGANICS ANALYSIS DATA SHEET TOTAL DIESEL RANGE HYDROCARBONS



NWTPHD by GC/FID-Silica and Acid Cleaned Page 1 of 1 Matrix: Soil

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

Data Release Authorized: Reported: 02/03/11

| ARI ID | Sample ID | Extraction Date | Analysis Date | EFV DL | Range | RL | Result |
|----------------------|---------------------------------------|----------------------------------|-------------------|-------------|--|------------------|-------------------------------|
| MB-012811 11-1706 | Method Blank HC ID: | 01/28/11 | 01/31/11 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 5.0 10 | < 5.0 U < 10 U 99.6% |
| SG42N 11-1706 | KSC-DP-25b-S- HC ID: DIESEI | -4.5-5-1101/28/11 L/MOTOR OIL | 02/01/11 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 5.9 12 | 670 E 43 NR |
| SG42N DL 11-1706 | KSC-DP-25b-S- HC ID: DIESEI | -4.5-5-1101/28/11 | 02/02/11 FID9 | 1.00 5.0 | Diesel Motor Oil o-Terphenyl | 29 59 | 560 < 59 U 72.4% |
| SG420 11-1707 | KSC-DP-24-S-(HC ID: DIESEI | 5-7-1101201/28/11 | 02/01/11 FID4A | 1.00 1.0 | Diesel Motor Oil o-Terphenyl | 5.7 11 | 7.0 < 11 U 97.3% |

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL. DL-Dilution of extract prior to analysis. RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24. Motor Oil quantitation on total peaks in the range from C24 to C38. HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.



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CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032

| Client ID 0 | TER | TOT OUT |
|---|--|--------------------------------------|
| MB-012811 LCS-012811 LCSD-012811 KSC-DP-25b-S-4.5-5 KSC-DP-25b-S-4.5-5 DL | 99.6% 98.2% 102% NR 72.4% 97.3% | 0 0 0 0 0 0 0 0 |

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(59-134) (43-137)

Prep Method: SW3546 Log Number Range: 11-1706 to 11-1707

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ORGANICS ANALYSIS DATA SHEET NWTPHD by GC/FID-Silica and Acid Cleaned Page 1 of 1

Sample ID: LCS-012811 LCS/LCSD

Lab Sample ID: LCS-012811 LIMS ID: 11-1706 Matrix: Soil Data Release Authorized: Reported: 02/11/11

Date Extracted LCS/LCSD: 01/28/11

Date Analyzed LCS: 02/01/11 00:16 LCSD: 02/01/11 00:39 Instrument/Analyst LCS: FID/MS LCSD: FID/MS QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

Sample Amount LCS: 10.0 g LCSD: 10.0 g Final Extract Volume LCS: 1.0 mL LCSD: 1.0 mL Dilution Factor LCS: 1.0 LCSD: 1.0

| Range | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|--------|-----|--------------------|-----------------|------|---------------------|------------------|------|
| Diesel | 134 | 150 | 89.3% | 146 | 150 | 97.3% | 8.6% |

TPHD Surrogate Recovery

| | LCS | LCSD |
|-------------|-------|------|
| o-Terphenyl | 98.28 | 102% |

Results reported in mg/kg RPD calculated using sample concentrations per SW846.



TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

| | | ARI Job: | SG42 |
|----------------|----------|----------|----------------|
| Matrix: Soil | | Project: | Striker |
| Date Received: | 01/26/11 | | 025195.003.032 |

| ARI ID | Client ID | Client Amt | Final Vol | Basis | Prep Date |
|--|--|---------------|---|-------------|--|
| 11-1706-012811MB1 11-1706-012811LCS1 11-1706-012811LCSD1 11-1706-SG42N 11-1707-SG420 | Method Blank Lab Control Lab Control Dup KSC-DP-25b-S-4.5- KSC-DP-24-S-6-7-1 | | 1.00 mI 1.00 mI 1.00 mI 1.00 mI 1.00 mI | - D | 01/28/11 01/28/11 01/28/11 01/28/11 01/28/11 |

Basis: D=Dry Weight W=As Received Diesel Extraction Report



Sample ID: KSC-DP-31-GW-110126 SAMPLE

Lab Sample ID: SG42A LIMS ID: 11-1693 Matrix: Water Data Release Authorized: Reported: 02/03/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.2 | 65.4 | |

U-Analyte undetected at given RL RL-Reporting Limit



Sample ID: KSC-DP-32-GW-110126 SAMPLE

Lab Sample ID: SG42B LIMS ID: 11-1694 Matrix: Water Data Release Authorized: Reported: 02/03/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | μg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.2 | 2.8 | |

U-Analyte undetected at given RL RL-Reporting Limit



Sample ID: KSC-DP-33-GW-110126 SAMPLE

OC Report No: SG42-Landau Associates. Inc. Lab Sample ID: SG42C LIMS ID: 11-1695 Matrix: Water Data Release Authorized: Reported: 02/03/11

| QC Report No: | SG42-Landau Associates, inc. |
|---------------|------------------------------|
| Project: | Striker |
| | 025195.003.032 |
| Date Sampl | ed: 01/26/11 |
| Date Receiv | ed: 01/26/11 |
| | |

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | μg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.2 | 0.3 | |

U-Analyte undetected at given RL RL-Reporting Limit



Sample ID: KSC-DP-22-GW-110126 SAMPLE

Lab Sample ID: SG42EQC Report No: SG42-Landau Associates, Inc.LIMS ID: 11-1697Project: StrikerMatrix: Water025195.003.032Data Release AuthorizedDate Sampled: 01/26/11Reported: 02/03/11Date Received: 01/26/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.2 | 66.0 | |

U-Analyte undetected at given RL RL-Reporting Limit



Page 1 of 1

Sample ID: KSC-DP-23-GW-110126 SAMPLE

Lab Sample ID: SG42F LIMS ID: 11-1698 Matrix: Water Data Release Authorized: Reported: 02/03/11

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.2 | 66.7 | |

U-Analyte undetected at given RL RL-Reporting Limit



Sample ID: KSC-DP-24-GW-110126 SAMPLE

Lab Sample ID: SG42G LIMS ID: 11-1699 Matrix: Water Data Release Authorized: Reported: 02/03/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | μg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.2 | 2.7 | |

U-Analyte undetected at given RL RL-Reporting Limit



Sample ID: KSC-DP-25b-GW-110126 SAMPLE

4

Lab Sample ID: SG42H LIMS ID: 11-1700 Matrix: Water Data Release Authorized: Reported: 02/03/11

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.2 | 71.6 | |

U-Analyte undetected at given RL RL-Reporting Limit



Sample ID: LAB CONTROL

Lab Sample ID: SG42LCS LIMS ID: 11-1693 Matrix: Water Data Release Authorized Reported: 02/03/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|-----------------------|--------------------|----------------|----------------|---------------|---|
| Arsenic | 200.8 | 25.0 | 25.0 | 100% | |
| Reported in μ g/L | | | | | |

N-Control limit not met Control Limits: 80-120%



INORGANICS ANALYSIS DATA SHEET DISSOLVED METALS Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: SG42MBQC Report No: SG42-Landau Associates, Inc.LIMS ID: 11-1693Project: StrikerMatrix: Water025195.003.032Data Release AuthorizedDate Sampled: NAReported: 02/03/11Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |

U-Analyte undetected at given RL RL-Reporting Limit

.



INORGANICS ANALYSIS DATA SHEET TOTAL METALS Page 1 of 1

Sample ID: KSC-DP-31-S-5-6-110126 SAMPLE

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

Percent Total Solids: 80.7%

Lab Sample ID: SG42I

Data Release Authorized: Reported: 02/03/11

LIMS ID: 11-1701

Matrix: Soil

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.2 | 4.3 | |

U-Analyte undetected at given RL RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET TOTAL METALS Page 1 of 1

Sample ID: KSC-DP-32-S-3.5-4.5-110126 SAMPLE

Lab Sample ID: SG42JQC Report No: SG42-LLIMS ID: 11-1702Project: StrikeMatrix: Soil025195Data Release Authorized:Date Sampled: 01/Reported: 02/03/11Date Received: 01/

QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

Percent Total Solids: 79.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.2 | 7.7 | |

U-Analyte undetected at given RL RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET TOTAL METALS

Page 1 of 1

Sample ID: KSC-DP-33-S-1.5-2.5-110126 SAMPLE

Lab Sample ID: SG42K LIMS ID: 11-1703 Matrix: Soil Data Release Authorized: Reported: 02/03/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

Percent Total Solids: 70.5%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.3 | 8.6 | |

U-Analyte undetected at given RL RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET TOTAL METALS Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: SG42LCS LIMS ID: 11-1701 Matrix: Soil Data Release Authorized: Reported: 02/03/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---------|--------------------|----------------|----------------|---------------|---|
| Arsenic | 200.8 | 25.6 | 25.0 | 102% | |

Reported in mg/kg-dry

ı

N-Control limit not met NA-Not Applicable, Analyte Not Spiked Control Limits: 80-120%



INORGANICS ANALYSIS DATA SHEET TOTAL METALS Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: SG42MB LIMS ID: 11-1701 Matrix: Soil Data Release Authorized: Reported: 02/03/11 QC Report No: SG42-Landau Associates, Inc. Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

Percent Total Solids: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/02/11 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |

U-Analyte undetected at given RL RL-Reporting Limit



February 8, 2011

Kathryn Hartley Landau Associates 130 Second Avenue South Edmonds, WA 98020

RE: Project: Striker 025195.003.032 ARI Job: SG59

Dear Kathryn,

Enclosed, please find the original Chain-of-Custody (COC) records, sample receipt documentation, e-mail documentation and final data report for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted five soil samples and four water samples and ten soil samples and a trip blank in good condition on January 27, 2011 under sample delivery group (SDGs) SG59. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Forms. Several samples were placed on hold pending further instructions. Per Landau Associates, samples were allowed to settle and sample volume was collected from the clear portion.

The samples were analyzed for Dissolved Arsenic and VOCs, as requested on the COC.

The water VOCs method blank contained hexachlorobutadiene. All associated samples that contain analyte have been flagged with a "B" qualifier.

The water VOCs CCAL is out of control low for acrylonitrile, 2-chloroethylvinylether and out of control high for 4-Isopropyltoluene and n-butylbenzene. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The water VOCs LCS is out of control low for 2-chloroethylvinylether. The LCSD is in control and no further action was taken.

The soil VOCs CCAL is out of control low for acetone, acrolein and chloromethane and out of control high for 2-chloroethylvinylether, 4-Isopropyltoluene and n-butylbenzene. All associated samples that contain analyte have been flagged with a "Q" qualifier.

There were no other irregularities with the samples.

Quality control analysis results are included for your review. An electronic copy of this report and all associated raw data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely, **URCES, INC** ANALYTI Kelly Bottem

Client Services Manager (206) 695-6211 <u>kellyb@arilabs.com</u> <u>www.arilabs.com</u>

Page 1 of

Seattle/Edmonds (425) 778-0907

LANDAU ASSOCIATES

A

Chain-of-Custody Record

| Chilling F | Project Name Striker Project No. 025195.003.032 Testing Parameters Turnaround Time | | | | | | | | | | | | | |
|--|---|-----------|-----------|----------------------|-----------|--------------|-----------------|--------|-------|-----|----------|----|-----|--|
| Project Name | | Project | t No. 023 | 5 195.0 | 13 | . 03 | 52/ | | | 777 | / / | 77 | 7 | Turnaround Time |
| Project Location/Event Supplem | enta/ | Phase | 11 Ke | at, n | <u>A</u> | | | | | | | | | |
| Sampler's Name PRR + - | SED | | | | | / | | */ | | | | | / | |
| Project Contact Tim Syverso | n/Kuth | ryn Har | HayIJo | e Flaber | ty | /: | <u>,</u> | ./ | | | | | / | |
| Send Results To SAME 4 | Ann | e Halu | brsch | (BOCI | ^;) | <u>_</u> | /)/ | | | | | . | . / | |
| Sample I.D. | Date | Time | | No. of Containers | | ۶̈́۲ | 12.64 | | / / | | | | | Observations/Comments |
| KSC-DP-17-6W-110127 | 1/27/11 | 0915 | HzO | 4 | × | X | f f | | | | | | (| X Allow water samples to settle, collect |
| KSC-DP-20-6W-110127 | 1 | 1245 | HzD | 4 | × | × | | | | | | | | aliquot from clear portion |
| KSC-DP-19-6W-110127 | | 13:25 | HzO | 4 | × | × | | | | | | | | <u>X</u> NWTPH-Dx - run acid wash/silica gel cleanup |
| KSC-DP-18-GW-110127 | | 1410 | H2D | 4 | X | X | | | | | | | | |
| KSC-DP-17-5-2-3-110127 | | 0845 | So. 1 | 2/ 10 | 2 | | | | | | | | | run samples standardized to |
| KSC-0P-17-5-4-5-110124 | | 0250 | 50.1 | 4 | Х | \times | | | | | | | | product |
| KSC-0P-20-5-2-3-110127 | | 1220 | 5011 | 4 | | | | | | | | | | Analyze for EPH if no specific |
| KSC-PP-20-5-4.5-5.5-11027 | | 1225 | soil | 4 | X | × | | | | | | | | product identified |
| KSC-DR-19-5-2-3-110127 | | 1300 | soil | 4 | | | | | | | | | | VOC/BTEX/VPH (soll): |
| KSC-DP-19-5-3,5-4,5-11927 | | 1305 | 5011 | 4 | X | ¥ | | | | | | | | non-preserved |
| KSC-DP-18-5-2-3-110127 | | 1345 | soil | 4 | | | | | | | | | | preserved w/methanol preserved w/sodium bisulfate |
| KSC-08-18-5-4-5-110127 | | 1350 | 5011 | 4 | X | \checkmark | | | | | | | | Freeze upon receipt |
| KSC-DP-18-5-4.5-110127 KSC-DP-21-5-3-3.5-110124 | | 1450 | soil | 2 | Y. | 1 | | | | | | | | Dissolved metal water samples field filtered |
| KS(-OP-Z1-5-2.5-)-110126 | | 1440 | Soil | 2 | 7 | | | | | | | | | |
| TB | V | | | \supset | X | | | | | | | | | Other Archie Sapks not Marked for analysis *Using method 200.2 |
| | | | | | - | | | | | | | | | *Using method 200. g |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Special Shipment/Handling or Storage Requirements | Special Shipment/Handling or Storage Requirements on ice Method of Shipment deliver to ARI | | | | | | | | | | | | | |
| Relinquished by | | Received | y | No - | | | Re | linqu | ished | by | | | | Received by |
| Contraction of the second seco | | Signature | a da | <u></u> | | | Sig | nature |) | | | | | Signature |
| Susan E. Dicker Printed Name | 50 - | | garas | ¥γ) | | | Driv | nted N | amo_ | | | | | Printed Name |
| Land al. | | JR I | ັງ | | | | F0 | neu r | | | | | | |
| Company Company | | | | | | | Company Company | | | | Company | | | |
| Date 1/27/11 Time 160 |) 0 1 | Date 1 F | H11 | Time 14 | <u>00</u> | | Dat | te | | | _ Time _ | | | Date Time |

We received -HCI preserves samples 00 KSC-DP-21-5-0-0,5-110126 is KSC-DP-21-5-3-3.5-110126 For VOC analys KSC-DP-21-S-2.5-3-110126. On hold recollec asked them \mathbf{t} bottle MEDH 2 sample 5 VOC and for regilost on Sample on recollected S-3-3.5-110126 -KSC-DP-ZI-S-Z, 5-3-110126. 3-0-0.5-110126 does 2.21-MeOH vial Av ave otal Solid SO lar hold Sample 61 put

5659

| Analytical Resources, Incorporated Analytical Chemists and Consultants | Cooler Red | eipt Form | |
|--|--|---------------------------------------|---------------|
| ARI Client: Landau Bueine | Project Name: Sty IK | V | |
| COC No(s): | Delivered by: Fed-Ex UPS Co | | ÷ |
| Assigned ARI Job No: <u>SASA</u> | Tracking No: | | |
| Preliminary Examination Phase: | | | |
| Were intact, properly signed and dated custody seals atta | ched to the outside of to cooler? | (YES) NO | |
| Were custody papers included with the cooler? | | YES NO | |
| Were custody papers properly filled out (ink, signed, etc.) | | YES NO | |
| Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C | | | |
| If cooler temperature is out of compliance fill out form 000 | | Temp Gun ID#: <u>1094</u> | |
| Cooler Accepted by: | | e:(c/)O | |
| | forms and attach all shipping documents | | |
| Log-In Phase: | | · · · · · · · · · · · · · · · · · · · | |
| | | | |
| Was a temperature blank included in the cooler? | | YES (NO) | |
| What kind of packing material was used? Bubbl Was sufficient ice used (if appropriate)? | le Wrap (Wet Ice) Gel Packs Baggies Foan | | |
| Were all bottles sealed in individual plastic bags? | | NA (YES NO YES (NO) | |
| Did all bottles arrive in good condition (unbroken)? | | (ES) NO | |
| Were all bottle labels complete and legible? | | YES NO | |
| Did the number of containers listed on COC match with th | | | |
| Did all bottle labels and tags agree with custody papers? . | | | |
| Were all bottles used correct for the requested analyses? | | $\langle C \rangle$ | |
| Do any of the analyses (bottles) require preservation? (att | | | |
| Were all VOC vials free of air bubbles? | | NA YES NO NA YES NO | |
| Was sufficient amount of sample sent in each bottle? | | | |
| | | MA NO | |
| Date VOC Trip Blank was made at ARI | | NA <u>1[2:0/1/</u> | |
| Was Sample Split by ARI : (NA) YES Date/Tim | e: Equipment: | Split by: | |
| Samples Logged by: | Date:2 2 1 Time: | 1027 | |
| | Manager of discrepancies or concerns ** | | |
| | · · · · · · · · · · · · · · · · · · · | | |
| Sample ID on Bottle Sample ID on CO | OC Sample ID on Bottle | Sample ID on COC | |
| | | | |
| | | | |
| | | | |
| | | | 1 I |
| Additional Notes, Discrepancies, & Resolutions: | NIZI Ind 2 SOBI UN | lo cellenter receives | ol on |
| 1/20-111 Samala Ver-NP-21-5-25 | 3 10126- 1035 - | - renounced instead | |
| 1/20/11/ Samper Score 5- 1/2/2 | - Sanda K30-AP. | -21-8-0-05-110126 | |
| Additional Notes, Discrepancies, & Resolutions: Sample KSC-DP-21-S-3-3.5-11 1/20/11, Sample KSC-DP-21-5-2.5- 0, KSC-DP-21-S-2-0.5-110/26 By: Sample Date: 1-28-11 Date: 1-28-11 | were put on hold. | | .> \ ⊺ |
| Small Air Bubbles Peabuobiles LARGE Air Bubb | Xes Small → "sm" | | |
| 2mm 2-4 mm >4 mm | Peabubbles → "pb" | | |
| | Large → "lg" | | |
| | Headspace → "hs" | | |

Subject: RE: SG59 - Confirmation From: "Kathryn Hartley" <khartley@landauinc.com> Date: Fri, 28 Jan 2011 14:19:10 -0800 To: Eric Branson <eric@arilabs.com> CC: Kelly Bottem <kellyb@arilabs.com>

Eric,

That is correct. We do not want to run the 0-0.5 sample (which is why additional sample was not collected). The 2.5-3 sample should be placed on hold and the 2.5-3 sample should be run for VOCs. The samples should have the same number. Everything looks correct.

I sent the attached revised COC to Kelly this morning as well. Please note that we are requesting analysis of the trip blank submitted 1/26/11 for TPH-G in addition to VOCs.

Let me know if you have any additional questions.

Thank you, Kathryn

 Kathryn F. Hartley " Senior Project Scientist

 Landau Associates, Inc.

 130 2nd Ave. S, Edmonds, WA 98020

 425.778.0907 " direct 425.329.0268 " cell 425.248.7520

 khartley@landauinc.com " www.landauinc.com

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From: Eric Branson [mailto:eric@arilabs.com]
Sent: Friday, January 28, 2011 1:39 PM
To: Kathryn Hartley
Cc: Kelly Bottem
Subject: SG59 - Confirmation

Kathryn,

Can you take a look at this? To be honest, having not processed the paperwork from the first job myself, this is pretty confusing to me. It seems that the sample we didn't receive additional volume for is **KSC-DP-21-S-0-0.5-110126**. Hopefully that is the sample you didn't plan on running VOCs on. **21-S-2.5-3** is the sample we received VOC volume for, but is only on hold. **21-3-3.5** is the sample we we received additional volume for and is being run.

Resamples on 01/27 have 01/27 as the sample date, but retain the -110126 sample suffix to match the previously received volume.

Let me know if anything looks out of place before I give final approval to process the samples. Thanks.

-Eric-

--Eric Branson Project Manager Analytical Resources, Inc. <u>eric@arilabs.com</u> (206) 695-6213

www.arilabs.com

NOTE: I am out of the office by 4:30 on Monday & Wednesday. This correspondence contains confidential information from Analytical Resources, Inc. (ARI) The information contained herein is intended solely for the use of the individual(s) named above. If you are not the intended recipient, any copying, distribution, disclosure, or use of the text and/or attached document(s) is strictly prohibited.

If you have received this correspondence in error, please notify sender immediately. Thank you.

| | Content-Description: | Striker_COC_sg42_rev012811.pdf |
|--------------------------------|-----------------------------|--------------------------------|
| Striker_COC_sg42_rev012811.pdf | Content-Type: | application/pdf |
| · | Content-Encoding: | base64 |
| | | |

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PRESERVATION VERIFICATION 01/28/11

Page 1 of 1

Inquiry Number: NONE Analysis Requested: 01/28/11 Contact: Flaherty, Joe Client: The Boeing Company Logged by: JM Sample Set Used: Yes-481 Validatable Package: No Deliverables:



ARI Job No: SG59

PC: Kelly VTSR: 01/27/11

Project #: 025195.003.032
Project: Striker
Sample Site:
SDG No:
Analytical Protocol: In-house

| LOGNUM ARI ID | CLIENT ID | CN >12 | WAD >12 | NH3 <2 | COD <2 | FOG <2 | MET <2 | PHEN <2 | PHOS <2 | TKN <2 | NO23 <2 | тос <2 | S2 >9 | AK102 <2 | Fe2+ <2 | | DOC FLT | PARAMETER | ADJUSTEI TO | D LOT NUMBER | AMOUNT ADDED | DATE/BY |
|-------------------------|---------------------|-----------|------------|-----------|-----------|-----------|-----------|------------|------------|-----------|------------|-----------|----------|-------------|------------|---|------------|-----------|----------------|-----------------|-----------------|---------|
| 11-1806 SG59A | KSC-DP-17-GW-110127 | | | | | | 00337 | | | | | | | | | Y | | | | | | |
| 11-1807 SG59B | KSC-DP-20-GW-110127 | | | | | | DÍIS | | | | | | | | | Y | | | | | | |
| 11-1808 SG59C | KSC-DP-19-GW-110127 | | | | | | DIS | | | | | | | | | Y | | | | | | |
| 11-1809 SG59D | KSC-DP-18-GW-110127 | | | | | | DIS | | | | | | • | | | Y | | | | | | |

Checked By JM Date 1/28/11

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: KSC-DP-17-S-4-5-110127 SAMPLE

Lab Sample ID: SG59E LIMS ID: 11-1810 Matrix: Soil Data Release Authorized: Reported: 02/08/11

Instrument/Analyst: FINN5/PAB Date Analyzed: 02/02/11 17:32 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Sample Amount: 4.70 g-dry-wt Purge Volume: 5.0 mL Moisture: 12.4%

| CAS Number | Analyte | RL | Result | Q |
|-------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 1.1 | < 1.1 | U |
| 74-83-9 | Bromomethane | 1.1 | < 1.1 | U |
| 75-01-4 | Vinyl Chloride | 1.1 | < 1.1 | U |
| 75-00-3 | Chloroethane | 1.1 | < 1.1 | U |
| 75-09-2 | Methylene Chloride | 2.1 | 17 | |
| 67-64-1 | Acetone | 5.3 | 22 | Q |
| 75-15-0 | Carbon Disulfide | 1.1 | < 1.1 | Ū |
| 75-35-4 | 1,1-Dichloroethene | 1.1 | < 1.1 | Ū |
| 75-34-3 | 1,1-Dichloroethane | 1.1 | < 1.1 | Ū |
| 156-60-5 | trans-1,2-Dichloroethene | 1.1 | < 1.1 | Ū |
| 156-59-2 | cis-1,2-Dichloroethene | 1.1 | < 1.1 | Ū |
| 67-66-3 | Chloroform | 1.1 | < 1.1 | Ū |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | < 1.1 | Ū |
| 78-93-3 | 2-Butanone | 5.3 | < 5.3 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1.1 | < 1.1 | U |
| 56-23-5 | Carbon Tetrachloride | 1.1 | < 1.1 | U |
| 108-05-4 | Vinyl Acetate | 5.3 | < 5.3 | U |
| 75-27-4 | Bromodichloromethane | 1.1 | < 1.1 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.1 | < 1.1 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.1 | < 1.1 | U |
| 79-01-6 | Trichloroethene | 1.1 | < 1.1 | U |
| 124-48-1 | Dibromochloromethane | 1.1 | < 1.1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.1 | < 1.1 | U |
| 71-43-2 | Benzene | 1.1 | < 1.1 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.1 | < 1.1 | U |
| 110-75-8 | 2-Chloroethylvinylether | 5.3 | < 5.3 | U |
| 75-25-2 | Bromoform | 1.1 | < 1.1 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.3 | < 5.3 | U |
| 591-78-6 | 2-Hexanone | 5.3 | < 5.3 | U |
| 127-18-4 | Tetrachloroethene | 1.1 | < 1.1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.1 | < 1.1 | U |
| 108-88-3 | Toluene | 1.1 | < 1.1 | U |
| 108-90-7 | Chlorobenzene | 1.1 | < 1.1 | U |
| 100-41-4 | Ethylbenzene | 1.1 | < 1.1 | U |
| 100-42-5 | Styrene | 1.1 | < 1.1 | U |
| 75-69-4 | Trichlorofluoromethane | 1.1 | < 1.1 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | 2.1 | < 2.1 | U |
| 179601-23-1 | m,p-Xylene | 1.1 | < 1.1 | U |
| 95-47-6 | o-Xylene | 1.1 | < 1.1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.1 | < 1.1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.1 | < 1.1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | < 1.1 | U |
| 107-02-8 | Acrolein | 53 | < 53 | U |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: KSC-DP-17-S-4-5-110127 SAMPLE

Lab Sample ID: SG59E LIMS ID: 11-1810 Matrix: Soil Date Analyzed: 02/02/11 17:32 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|-------------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.1 | < 1.1 | U |
| 74-96-4 | Bromoethane | 2.1 | < 2.1 | U |
| 107-13-1 | Acrylonitrile | 5.3 | < 5.3 | U |
| 563-58-6 | 1,1-Dichloropropene | 1.1 | < 1.1 | U |
| 74-95-3 | Dibromomethane | 1.1 | < 1.1 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.1 | < 1.1 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.3 | < 5.3 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 2.1 | < 2.1 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 5.3 | < 5.3 | U |
| 108-67 - 8 | 1,3,5-Trimethylbenzene | 1.1 | < 1.1 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | < 1.1 | U |
| 87-68-3 | Hexachlorobutadiene | 5.3 | < 5.3 | U |
| 106-93-4 | Ethylene Dibromide | 1.1 | < 1.1 | U |
| 74-97-5 | Bromochloromethane | 1.1 | < 1.1 | U |
| 594-20-7 | 2,2-Dichloropropane | 1.1 | < 1.1 | U |
| 142-28-9 | 1,3-Dichloropropane | 1.1 | < 1.1 | U |
| 98-82-8 | Isopropylbenzene | 1.1 | < 1.1 | U |
| 103-65-1 | n-Propylbenzene | 1.1 | < 1.1 | U |
| 108-86-1 | Bromobenzene | 1.1 | < 1.1 | U |
| 95-49-8 | 2-Chlorotoluene | 1.1 | < 1.1 | U |
| 106-43-4 | 4-Chlorotoluene | 1.1 | < 1.1 | U |
| 98-06-6 | tert-Butylbenzene | 1.1 | < 1.1 | U |
| 135-98-8 | sec-Butylbenzene | 1.1 | < 1.1 | U |
| 99-87-6 | 4-Isopropyltoluene | 1.1 | < 1.1 | U |
| 104-51-8 | n-Butylbenzene | 1.1 | < 1.1 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.3 | < 5.3 | U |
| 91-20-3 | Naphthalene | 5.3 | < 5.3 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.3 | < 5.3 | U |

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 105% |
|------------------------|-------|
| d8-Toluene | 95.1% |
| Bromofluorobenzene | 93.6% |
| d4-1,2-Dichlorobenzene | 99.6% |

ANALYTICAL RESOURCES INCORPORATED

Sample ID: KSC-DP-20-S-4.5-5.5-110127

SAMPLE

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Lab Sample ID: SG59F LIMS ID: 11-1811 Matrix: Soil Data Release Authorized: WW Reported: 02/08/11

Instrument/Analyst: FINN5/PAB Date Analyzed: 02/02/11 17:59 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Sample Amount: 5.18 g-dry-wt Purge Volume: 5.0 mL Moisture: 10.8%

| CAS Number | Analyte | RL | Result | Q |
|-------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 1.0 | < 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 1.0 | < 1.0 | U |
| 75-00-3 | Chloroethane | 1.0 | < 1.0 | U |
| 75-09-2 | Methylene Chloride | 1.9 | 11 | |
| 67-64-1 | Acetone | 4.8 | 35 | Q |
| 75-15-0 | Carbon Disulfide | 1.0 | < 1.0 | Ū |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | < 1.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | < 1.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | < 1.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | < 1.0 | U |
| 67-66-3 | Chloroform | 1.0 | < 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | < 1.0 | U |
| 78-93-3 | 2-Butanone | 4.8 | < 4.8 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | < 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | < 1.0 | U |
| 108-05-4 | Vinyl Acetate | 4.8 | < 4.8 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | < 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | < 1.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | < 1.0 | U |
| 79-01-6 | Trichloroethene | 1.0 | < 1.0 | U |
| 124-48-1 | Dibromochloromethane | 1.0 | < 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | < 1.0 | U |
| 71-43-2 | Benzene | 1.0 | < 1.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | < 1.0 | U |
| 110-75-8 | 2-Chloroethylvinylether | 4.8 | < 4.8 | U |
| 75-25-2 | Bromoform | 1.0 | < 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 4.8 | < 4.8 | U |
| 591-78-6 | 2-Hexanone | 4.8 | < 4.8 | U |
| 127-18-4 | Tetrachloroethene | 1.0 | < 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | < 1.0 | U |
| 108-88-3 | Toluene | 1.0 | < 1.0 | U |
| 108-90-7 | Chlorobenzene | 1.0 | < 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | < 1.0 | U |
| 100-42-5 | Styrene | 1.0 | < 1.0 | U |
| 75-69-4 | Trichlorofluoromethane | 1.0 | < 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | 1.9 | < 1.9 | U |
| 179601-23-1 | m,p-Xylene | 1.0 | < 1.0 | U |
| 95-47-6 | o-Xylene | 1.0 | < 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | < 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | < 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | < 1.0 | U |
| 107-02-8 | Acrolein | 48 | < 48 | U |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: KSC-DP-20-S-4.5-5.5-110127 SAMPLE

Lab Sample ID: SG59F LIMS ID: 11-1811 Matrix: Soil Date Analyzed: 02/02/11 17:59 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL. | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 1.9 | < 1.9 | U |
| 107-13-1 | Acrylonitrile | 4.8 | < 4.8 | U |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | < 1.0 | U |
| 74-95-3 | Dibromomethane | 1.0 | < 1.0 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | < 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 4.8 | < 4.8 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 1.9 | < 1.9 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 4.8 | < 4.8 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | < 1.0 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | < 1.0 | U |
| 87-68-3 | Hexachlorobutadiene | 4.8 | < 4.8 | U |
| 106-93-4 | Ethylene Dibromide | 1.0 | < 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | < 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | < 1.0 | U |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | < 1.0 | U |
| 98-82-8 | Isopropylbenzene | 1.0 | < 1.0 | U |
| 103-65-1 | n-Propylbenzene | 1.0 | < 1.0 | U |
| 108-86-1 | Bromobenzene | 1.0 | < 1.0 | U |
| 95-49-8 | 2-Chlorotoluene | 1.0 | < 1.0 | U |
| 106-43-4 | 4-Chlorotoluene | 1.0 | < 1.0 | U |
| 98-06-6 | tert-Butylbenzene | 1.0 | < 1.0 | U |
| 135-98-8 | sec-Butylbenzene | 1.0 | < 1.0 | U |
| 99-87-6 | 4-Isopropyltoluene | 1.0 | 1.6 | |
| 104-51-8 | n-Butylbenzene | 1.0 | < 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.8 | < 4.8 | U |
| 91-20-3 | Naphthalene | 4.8 | < 4.8 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.8 | < 4.8 | U |

Reported in $\mu g/kg$ (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 107% |
|------------------------|-------|
| d8-Toluene | 94.1% |
| Bromofluorobenzene | 94.5% |
| d4-1,2-Dichlorobenzene | 101% |

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ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: KSC-DP-19-S-3.5-4.5-110127 SAMPLE

Lab Sample ID: SG59G LIMS ID: 11-1812 Matrix: Soil Data Release Authorized: Reported: 02/08/11

Instrument/Analyst: FINN5/PAB
Date Analyzed: 02/02/11 18:25

QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Sample Amount: 4.88 g-dry-wt Purge Volume: 5.0 mL Moisture: 11.8%

| CAS Number | Analyte | RL | Result | Q |
|-------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 1.0 | < 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | υ |
| 75-01-4 | Vinyl Chloride | 1.0 | < 1.0 | U |
| 75-00-3 | Chloroethane | 1.0 | < 1.0 | U |
| 75-09-2 | Methylene Chloride | 2.0 | 9.0 | |
| 67-64-1 | Acetone | 5.1 | 18 | Q |
| 75-15-0 | Carbon Disulfide | 1.0 | < 1.0 | Ū |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | < 1.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | < 1.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | < 1.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | < 1.0 | U |
| 67-66-3 | Chloroform | 1.0 | < 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | < 1.0 | U |
| 78-93-3 | 2-Butanone | 5.1 | < 5.1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | < 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | < 1.0 | U |
| 108-05-4 | Vinyl Acetate | 5.1 | < 5.1 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | < 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | < 1.0 | υ |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | < 1.0 | U |
| 79-01-6 | Trichloroethene | 1.0 | < 1.0 | U |
| 124-48-1 | Dibromochloromethane | 1.0 | < 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | < 1.0 | U |
| 71-43-2 | Benzene | 1.0 | < 1.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | < 1.0 | U |
| 110-75-8 | 2-Chloroethylvinylether | 5.1 | < 5.1 | U |
| 75-25-2 | Bromoform | 1.0 | < 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.1 | < 5.1 | U |
| 591-78-6 | 2-Hexanone | 5.1 | < 5.1 | U |
| 127-18-4 | Tetrachloroethene | 1.0 | < 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | < 1.0 | υ |
| 108-88-3 | Toluene | 1.0 | < 1.0 | U |
| 108-90-7 | Chlorobenzene | 1.0 | < 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | < 1.0 | U |
| 100-42-5 | Styrene | 1.0 | < 1.0 | U |
| 75-69-4 | Trichlorofluoromethane | 1.0 | < 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | | < 2.0 | U |
| 179601-23-1 | m,p-Xylene | 1.0 | < 1.0 | U |
| 95-47-6 | o-Xylene | 1.0 | < 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | < 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | < 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | < 1.0 | υ |
| 107-02-8 | Acrolein | 51 | < 51 | U |

ANALYTICAL RESOURCES

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: KSC-DP-19-S-3.5-4.5-110127 SAMPLE

Lab Sample ID: SG59G LIMS ID: 11-1812 Matrix: Soil Date Analyzed: 02/02/11 18:25 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 2.0 | < 2.0 | U |
| 107-13-1 | Acrylonitrile | 5.1 | < 5.1 | U |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | < 1.0 | U |
| 74-95-3 | Dibromomethane | 1.0 | < 1.0 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | < 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.1 | < 5.1 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 2.0 | < 2.0 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 5.1 | < 5.1 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | < 1.0 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | < 1.0 | U |
| 87-68-3 | Hexachlorobutadiene | 5.1 | < 5.1 | U |
| 106-93-4 | Ethylene Dibromide | 1.0 | < 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | < 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | < 1.0 | U |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | < 1.0 | U |
| 98-82-8 | Isopropylbenzene | 1.0 | < 1.0 | U |
| 103-65-1 | n-Propylbenzene | 1.0 | < 1.0 | U |
| 108-86-1 | Bromobenzene | 1.0 | < 1.0 | U |
| 95-49-8 | 2-Chlorotoluene | 1.0 | < 1.0 | U |
| 106-43-4 | 4-Chlorotoluene | 1.0 | < 1.0 | U |
| 98-06-6 | tert-Butylbenzene | 1.0 | < 1.0 | U |
| 135-98-8 | sec-Butylbenzene | 1.0 | < 1.0 | U |
| 99-87-6 | 4-Isopropyltoluene | 1.0 | < 1.0 | U |
| 104-51-8 | n-Butylbenzene | 1.0 | < 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.1 | < 5.1 | U |
| 91-20-3 | Naphthalene | 5.1 | < 5.1 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.1 | < 5.1 | U |

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 107% |
|------------------------|-------|
| d8-Toluene | 95.3% |
| Bromofluorobenzene | 96.0% |
| d4-1,2-Dichlorobenzene | 100% |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: KSC-DP-18-S-4-5-110127 SAMPLE

Lab Sample ID: SG59H LIMS ID: 11-1813 Matrix: Soil Data Release Authorized: WW Reported: 02/08/11

Instrument/Analyst: FINN5/PAB Date Analyzed: 02/02/11 18:52 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Sample Amount: 5.00 g-dry-wt Purge Volume: 5.0 mL Moisture: 11.9%

| CAS Number | Analyte | RL | Result | Q |
|------------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 1.0 | < 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 1.0 | < 1.0 | U |
| 75-00-3 | Chloroethane | 1.0 | < 1.0 | U |
| 75-09-2 | Methylene Chloride | 2.0 | 24 | |
| 67-64-1 | Acetone | 5.0 | 49 | Q |
| 75-15-0 | Carbon Disulfide | 1.0 | 1.4 | _ |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | < 1.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | < 1.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | < 1.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | < 1.0 | U |
| 67-66-3 | Chloroform | 1.0 | < 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | < 1.0 | U |
| 78-93-3 | 2-Butanone | 5.0 | < 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | < 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | < 1.0 | U |
| 108-05-4 | Vinyl Acetate | 5.0 | < 5.0 | U |
| 75-27 - 4 | Bromodichloromethane | 1.0 | < 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | < 1.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | < 1.0 | U |
| 79-01-6 | Trichloroethene | 1.0 | < 1.0 | U |
| 124-48-1 | Dibromochloromethane | 1.0 | < 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | < 1.0 | U |
| 71-43-2 | Benzene | 1.0 | < 1.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | < 1.0 | U |
| 110-75-8 | 2-Chloroethylvinylether | 5.0 | < 5.0 | U |
| 75-25-2 | Bromoform | 1.0 | < 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | < 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | < 5.0 | U |
| 127-18-4 | Tetrachloroethene | 1.0 | < 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | < 1.0 | U |
| 108-88-3 | Toluene | 1.0 | < 1.0 | U |
| 108-90-7 | Chlorobenzene | 1.0 | < 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | < 1.0 | U |
| 100-42-5 | Styrene | 1.0 | < 1.0 | U |
| 75-69-4 | Trichlorofluoromethane | 1.0 | < 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | | < 2.0 | U |
| 179601-23-1 | m,p-Xylene | 1.0 | < 1.0 | U |
| 95-47-6 | o-Xylene | 1.0 | < 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | < 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | < 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | < 1.0 | U |
| 107-02-8 | Acrolein | 50 | < 5.0 | U |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: KSC-DP-18-S-4-5-110127 SAMPLE

Lab Sample ID: SG59H LIMS ID: 11-1813 Matrix: Soil Date Analyzed: 02/02/11 18:52 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 2.0 | < 2.0 | U |
| 107-13-1 | Acrylonitrile | 5.0 | < 5.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | < 1.0 | U |
| 74-95-3 | Dibromomethane | 1.0 | < 1.0 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | < 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.0 | < 5.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 2.0 | < 2.0 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 5.0 | < 5.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | < 1.0 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | < 1.0 | U |
| 87-68-3 | Hexachlorobutadiene | 5.0 | < 5.0 | U |
| 106-93-4 | Ethylene Dibromide | 1.0 | < 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | < 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | < 1.0 | U |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | < 1.0 | U |
| 98-82-8 | Isopropylbenzene | 1.0 | 2.3 | |
| 103-65-1 | n-Propylbenzene | 1.0 | < 1.0 | U |
| 108-86-1 | Bromobenzene | 1.0 | < 1.0 | U |
| 95-49-8 | 2-Chlorotoluene | 1.0 | < 1.0 | U |
| 106-43-4 | 4-Chlorotoluene | 1.0 | < 1.0 | U |
| 98-06-6 | tert-Butylbenzene | 1.0 | < 1.0 | U |
| 135-98-8 | sec-Butylbenzene | 1.0 | < 1.0 | U |
| 99-87-6 | 4-Isopropyltoluene | 1.0 | 1.3 | |
| 104-51-8 | n-Butylbenzene | 1.0 | < 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | < 5.0 | U |
| 91-20-3 | Naphthalene | 5.0 | < 5.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | < 5.0 | U |

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 111% |
|------------------------|-------|
| d8-Toluene | 92.5% |
| Bromofluorobenzene | 94.6% |
| d4-1,2-Dichlorobenzene | 102% |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: KSC-DP-21-S-3-3.5-110126 SAMPLE

Lab Sample ID: SG59I LIMS ID: 11-1814 Matrix: Soil Data Release Authorized: WWW Reported: 02/08/11

Instrument/Analyst: FINN5/PAB Date Analyzed: 02/02/11 19:18 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Sample Amount: 5.22 g-dry-wt Purge Volume: 5.0 mL Moisture: 18.0%

| CAS Number | Analyte | RL | Result | Q |
|-------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 1.0 | < 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 1.0 | < 1.0 | U |
| 75-00-3 | Chloroethane | 1.0 | < 1.0 | U |
| 75-09-2 | Methylene Chloride | 1.9 | 4.9 | |
| 67-64-1 | Acetone | 4.8 | 62 | Q |
| 75-15-0 | Carbon Disulfide | 1.0 | < 1.0 | Ū |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | < 1.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | < 1.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | < 1.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | < 1.0 | U |
| 67-66-3 | Chloroform | 1.0 | < 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | < 1.0 | U |
| 78-93-3 | 2-Butanone | 4.8 | < 4.8 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | < 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | < 1.0 | U |
| 108-05-4 | Vinyl Acetate | 4.8 | < 4.8 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | < 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | < 1.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | < 1.0 | U |
| 79-01-6 | Trichloroethene | 1.0 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | < 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | < 1.0 | U |
| 71-43-2 | Benzene | 1.0 | < 1.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | < 1.0 | U |
| 110-75-8 | 2-Chloroethylvinylether | 4.8 | < 4.8 | U |
| 75-25-2 | Bromoform | 1.0 | < 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 4.8 | < 4.8 | U |
| 591-78-6 | 2-Hexanone | 4.8 | < 4.8 | υ |
| 127-18-4 | Tetrachloroethene | 1.0 | < 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | < 1.0 | υ |
| 108-88-3 | Toluene | 1.0 | < 1.0 | U |
| 108-90-7 | Chlorobenzene | 1.0 | < 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | < 1.0 | U |
| 100-42-5 | Styrene | 1.0 | < 1.0 | υ |
| 75-69-4 | Trichlorofluoromethane | 1.0 | 1.0 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | 1.9 | < 1.9 | U |
| 179601-23-1 | m,p-Xylene | 1.0 | < 1.0 | U |
| 95-47-6 | o-Xylene | 1.0 | < 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | < 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | < 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | < 1.0 | U |
| 107-02-8 | Acrolein | 48 | < 48 | U |

ANALYTICAL RESOURCES

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: KSC-DP-21-S-3-3.5-110126 SAMPLE

Lab Sample ID: SG59I LIMS ID: 11-1814 Matrix: Soil Date Analyzed: 02/02/11 19:18 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 1.9 | < 1.9 | U |
| 107-13-1 | Acrylonitrile | 4.8 | < 4.8 | U |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | < 1.0 | U |
| 74-95-3 | Dibromomethane | 1.0 | < 1.0 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | < 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 4.8 | < 4.8 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 1.9 | < 1.9 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 4.8 | < 4.8 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | < 1.0 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | < 1.0 | U |
| 87-68-3 | Hexachlorobutadiene | 4.8 | < 4.8 | U |
| 106-93-4 | Ethylene Dibromide | 1.0 | < 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | < 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | < 1.0 | U |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | < 1.0 | U |
| 98-82-8 | Isopropylbenzene | 1.0 | < 1.0 | U |
| 103-65-1 | n-Propylbenzene | 1.0 | < 1.0 | U |
| 108-86-1 | Bromobenzene | 1.0 | < 1.0 | U |
| 95-49-8 | 2-Chlorotoluene | 1.0 | < 1.0 | U |
| 106-43-4 | 4-Chlorotoluene | 1.0 | < 1.0 | U |
| 98-06-6 | tert-Butylbenzene | 1.0 | < 1.0 | U |
| 135-98-8 | sec-Butylbenzene | 1.0 | < 1.0 | U |
| 99-87-6 | 4-Isopropyltoluene | 1.0 | < 1.0 | U |
| 104-51-8 | n-Butylbenzene | 1.0 | < 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.8 | < 4.8 | U |
| 91-20-3 | Naphthalene | 4.8 | < 4.8 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.8 | < 4.8 | U |

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 119% |
|------------------------|-------|
| d8-Toluene | 92.9% |
| Bromofluorobenzene | 87.2% |
| d4-1,2-Dichlorobenzene | 102% |



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: MB-020211 METHOD BLANK

Lab Sample ID: MB-020211 LIMS ID: 11-1810 Matrix: Soil Data Release Authorized: MW Reported: 02/08/11

Instrument/Analyst: FINN5/PAB Date Analyzed: 02/02/11 16:34 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

Sample Amount: 5.00 g-dry-wt Purge Volume: 5.0 mL Moisture: NA

| CAS Number | Analyte | RL | Result | Q |
|-------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 1.0 | < 1.0 | υ |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 1.0 | < 1.0 | U |
| 75-00-3 | Chloroethane | 1.0 | < 1.0 | U |
| 75-09-2 | Methylene Chloride | 2.0 | < 2.0 | U |
| 67-64-1 | Acetone | 5.0 | < 5.0 | υ |
| 75-15-0 | Carbon Disulfide | 1.0 | < 1.0 | υ |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | < 1.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | < 1.0 | υ |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | < 1.0 | υ |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | < 1.0 | υ |
| 67-66-3 | Chloroform | 1.0 | < 1.0 | υ |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | < 1.0 | U |
| 78-93-3 | 2-Butanone | 5.0 | < 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | < 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | < 1.0 | U |
| 108-05-4 | Vinyl Acetate | 5.0 | < 5.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | < 1.0 | υ |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | < 1.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | < 1.0 | U |
| 79-01-6 | Trichloroethene | 1.0 | < 1.0 | U |
| 124-48-1 | Dibromochloromethane | 1.0 | < 1.0 | Ū |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | < 1.0 | U |
| 71-43-2 | Benzene | 1.0 | < 1.0 | υ |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | < 1.0 | υ |
| 110-75-8 | 2-Chloroethylvinylether | 5.0 | < 5.0 | υ |
| 75-25-2 | Bromoform | 1.0 | < 1.0 | υ |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | < 5.0 | υ |
| 591-78-6 | 2-Hexanone | 5.0 | < 5.0 | U |
| 127-18-4 | Tetrachloroethene | 1.0 | < 1.0 | υ |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | < 1.0 | U |
| 108-88-3 | Toluene | 1.0 | < 1.0 | U |
| 108-90-7 | Chlorobenzene | 1.0 | < 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | < 1.0 | Ū |
| 100-42-5 | Styrene | 1.0 | < 1.0 | Ū |
| 75-69-4 | Trichlorofluoromethane | 1.0 | < 1.0 | υ |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | | < 2.0 | ΰ |
| 179601-23-1 | m,p-Xylene | 1.0 | < 1.0 | Ū |
| 95-47-6 | o-Xylene | 1.0 | < 1.0 | Ū |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | < 1.0 | Ū |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | < 1.0 | Ū |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | < 1.0 | Ū |
| 107-02-8 | Acrolein | 50 | < 50 | Ū |
| | | | | |



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: MB-020211 METHOD BLANK

Lab Sample ID: MB-020211 LIMS ID: 11-1810 Matrix: Soil Date Analyzed: 02/02/11 16:34 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 2.0 | < 2.0 | U |
| 107-13-1 | Acrylonitrile | 5.0 | < 5.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | < 1.0 | U |
| 74-95-3 | Dibromomethane | 1.0 | < 1.0 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | < 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.0 | < 5.0 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 2.0 | < 2.0 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 5.0 | < 5.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | < 1.0 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | < 1.0 | U |
| 87-68-3 | Hexachlorobutadiene | 5.0 | < 5.0 | U |
| 106-93-4 | Ethylene Dibromide | 1.0 | < 1.0 | υ |
| 74-97-5 | Bromochloromethane | 1.0 | < 1.0 | U |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | < 1.0 | υ |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | < 1.0 | U |
| 98-82-8 | Isopropylbenzene | 1.0 | < 1.0 | U |
| 103-65-1 | n-Propylbenzene | 1.0 | < 1.0 | υ |
| 108-86-1 | Bromobenzene | 1.0 | < 1.0 | U |
| 95-49-8 | 2-Chlorotoluene | 1.0 | < 1.0 | U |
| 106-43-4 | 4-Chlorotoluene | 1.0 | < 1.0 | U |
| 98-06-6 | tert-Butylbenzene | 1.0 | < 1.0 | U |
| 135-98-8 | sec-Butylbenzene | 1.0 | < 1.0 | U |
| 99-87-6 | 4-Isopropyltoluene | 1.0 | < 1.0 | U |
| 104-51-8 | n-Butylbenzene | 1.0 | < 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | < 5.0 | U |
| 91-20-3 | Naphthalene | 5.0 | < 5.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | < 5.0 | U |

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 82.7% |
|------------------------|-------|
| d8-Toluene | 96.3% |
| Bromofluorobenzene | 93.0% |
| d4-1,2-Dichlorobenzene | 95.2% |



Matrix: Soil

.

QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| ARI ID | Client ID | | DCE | TOL | BFB | DCB | TOT OUT |
|-------------|------------------------|-------|-------|-------|-------|-------|---------|
| MB-020211 | Method Blank | Low | 82.7% | 96.3% | 93.0% | 95.2% | 0 |
| LCS-020211 | Lab Control | Low | 81.5% | 96.1% | 98.8% | 97.2% | 0 |
| LCSD-020211 | Lab Control Dup | Low | 91.3% | 94.5% | 96.9% | 97.6% | 0 |
| SG59E | KSC-DP-17-S-4-5-110127 | Low | 105% | 95.1% | 93.6% | 99.6% | 0 |
| SG59F | KSC-DP-20-S-4.5-5.5-11 | 01Low | 107% | 94.1% | 94.5% | 101% | 0 |
| SG59G | KSC-DP-19-S-3.5-4.5-11 | 01Low | 107% | 95.3% | 96.0% | 100% | 0 |
| SG59H | KSC-DP-18-S-4-5-110127 | Low | 111% | 92.5% | 94.6% | 102% | 0 |
| SG59I | KSC-DP-21-S-3-3.5-1101 | 26Low | 119% | 92.9% | 87.2% | 102% | 0 |
| | | | | | | | |

| | LCS/MB | LIMITS | QC LI | MITS |
|--------------------------------|--------|--------|--------|--------|
| SW8260C | Low | Med | Low | Med |
| (DCE) = d4-1, 2-Dichloroethane | 79-121 | 76-120 | 75-152 | 69-120 |
| (TOL) = d8-Toluene | 80-120 | 80-120 | 82-115 | 80-120 |
| (BFB) = Bromofluorobenzene | 80-120 | 80-120 | 64-120 | 76-128 |
| (DCB) = d4-1,2-Dichlorobenzene | 80-120 | 80-120 | 80-120 | 80-120 |

Log Number Range: 11-1810 to 11-1814



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Lab Sample ID: LCS-020211 LIMS ID: 11-1810 Matrix: Soil Data Release Authorized: Reported: 02/08/11 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

Sample ID: LCS-020211

LAB CONTROL SAMPLE

Instrument/Analyst LCS: FINN5/PAB LCSD: FINN5/PAB Date Analyzed LCS: 02/02/11 12:40 LCSD: 02/02/11 14:56 Sample Amount LCS: 5.00 g-dry-wt LCSD: 5.00 g-dry-wt Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL Moisture: NA

| 2 2 t - | 1.00 | Spike | LCS | 1000 | Spike | LCSD | 000 |
|-------------------------------------|--------|-----------|----------|--------|------------|----------|-------|
| Analyte | LCS | Added-LCS | Recovery | LCSD | Added-LCSD | Recovery | RPD |
| Chloromethane | 43.5 Q | 50.0 | 87.0% | 44.8 Q | 50.0 | 89.6% | 2.9% |
| Bromomethane | 50.9 | 50.0 | 102% | 50.1 | 50.0 | 100% | 1.6% |
| Vinyl Chloride | 47.0 | 50.0 | 94.0% | 53.3 | 50.0 | 107% | 12.6% |
| Chloroethane | 52.1 | 50.0 | 104% | 55.4 | 50.0 | 111% | 6.1% |
| Methylene Chloride | 51.9 | 50.0 | 104% | 53.8 | 50.0 | 108% | 3.6% |
| Acetone | 197 Q | 250 | 78.8% | 231 Q | 250 | 92.4% | 15.9% |
| Carbon Disulfide | 51.7 | 50.0 | 1038 | 62.0 | 50.0 | 124% | 18.1% |
| 1,1-Dichloroethene | 53.1 | 50.0 | 106% | 56.2 | 50.0 | 112% | 5.7% |
| 1,1-Dichloroethane | 52.7 | 50.0 | 105% | 54.3 | 50.0 | 109% | 3.0% |
| trans-1,2-Dichloroethene | 52.6 | 50.0 | 105% | 55.3 | 50.0 | 111% | 5.0% |
| cis-1,2-Dichloroethene | 52.6 | 50.0 | 105% | 54.9 | 50.0 | 110% | 4.3% |
| Chloroform | 50.8 | 50.0 | 102% | 52.0 | 50.0 | 104% | 2.3% |
| 1,2-Dichloroethane | 50.5 | 50.0 | 101% | 48.5 | 50.0 | 97.0% | 4.0% |
| 2-Butanone | 231 | 250 | 92.4% | 245 | 250 | 98.0% | 5.9% |
| 1,1,1-Trichloroethane | 53.3 | 50.0 | 107% | 55.0 | 50.0 | 110% | 3.1% |
| Carbon Tetrachloride | 53.2 | 50.0 | 106% | 51.8 | 50.0 | 104% | 2.7% |
| Vinyl Acetate | 50.0 | 50.0 | 100% | 50.7 | 50.0 | 101% | 1.4% |
| Bromodichloromethane | 54.7 | 50.0 | 109% | 52.2 | 50.0 | 104% | 4.7% |
| 1,2-Dichloropropane | 51.3 | 50.0 | 103% | 48.2 | 50.0 | 96.4% | 6.2% |
| cis-1,3-Dichloropropene | 57.1 | 50.0 | 114% | 54.2 | 50.0 | 108% | 5.2% |
| Trichloroethene | 51.8 | 50.0 | 104% | 51.1 | 50.0 | 102% | 1.4% |
| Dibromochloromethane | 56.0 | 50.0 | 112% | 53.0 | 50.0 | 106% | 5.5% |
| 1,1,2-Trichloroethane | 52.3 | 50.0 | 105% | 50.5 | 50.0 | 101% | 3,5% |
| Benzene | 54.6 | 50.0 | 109% | 53.9 | 50.0 | 108% | 1.3% |
| trans-1,3-Dichloropropene | 57.8 | 50.0 | 116% | 54.8 | 50.0 | 110% | 5.3% |
| 2-Chloroethylvinylether | 72.6 Q | 50.0 | 145% | 69.9 Q | 50.0 | 140% | 3.8% |
| Bromoform | 53.6 | 50.0 | 107% | 53.5 | 50.0 | 107% | 0.2% |
| 4-Methyl-2-Pentanone (MIBK) | 246 | 250 | 98.4% | 241 | 250 | 96.4% | 2.1% |
| 2-Hexanone | 249 | 250 | 99.6% | 246 | 250 | 98,4% | 1.2% |
| Tetrachloroethene | 56.2 | 50.0 | 112% | 57.5 | 50.0 | 115% | 2.3% |
| 1,1,2,2-Tetrachloroethane | 48.8 | 50.0 | 97.6% | 47.9 | 50.0 | 95.8% | 1.9% |
| Toluene | 54.1 | 50.0 | 108% | 53.0 | 50.0 | 106% | 2.1% |
| Chlorobenzene | 55.6 | 50.0 | 111% | 55.7 | 50.0 | 111% | 0.2% |
| Ethylbenzene | 60.0 | 50.0 | 120% | 60.2 | 50.0 | 120% | 0.3% |
| Styrene | 58.9 | 50.0 | 118% | 59.0 | 50.0 | 118% | 0.2% |
| Trichlorofluoromethane | 56.4 | 50.0 | 113% | 63.1 | 50.0 | 126% | 11.2% |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | 49.4 | 50.0 | 98.8% | 49.0 | 50.0 | 98.0% | 0.8% |
| m,p-Xylene | 121 | 100 | 121% | 124 | 100 | 124% | 2.4% |
| o-Xylene | 57.1 | 50.0 | 114% | 57.3 | 50.0 | 115% | 0.3% |
| 1,2-Dichlorobenzene | 53.9 | 50.0 | 108% | 56.2 | 50.0 | 112% | 4.2% |
| 1,3-Dichlorobenzene | 55.7 | 50.0 | 111% | 59.4 | 50.0 | 119% | 6.4% |
| 1,4-Dichlorobenzene | 55.4 | 50.0 | 111% | 58.6 | 50.0 | 117% | 5.6% |

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2 Sample ID: LCS-020211 LAB CONTROL SAMPLE

Lab Sample ID: LCS-020211 LIMS ID: 11-1810 Matrix: Soil QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| | | Spike | LCS | | Spike | LCSD | |
|-----------------------------|--------|-----------|----------|--------|------------|----------|-------|
| Analyte | LCS | Added-LCS | Recovery | LCSD | Added-LCSD | Recovery | RPD |
| Acrolein | 204 Q | 250 | 81.6% | 224 Q | 250 | 89.6% | 9.3% |
| Methyl Iodide | 54.8 | 50.0 | 110% | 58.5 | 50.0 | 117% | 6.5% |
| Bromoethane | 57.6 | 50.0 | 115% | 60.2 | 50.0 | 120% | 4.4% |
| Acrylonitrile | 48.8 | 50.0 | 97.6% | 50.7 | 50.0 | 101% | 3.8% |
| 1,1-Dichloropropene | 53.4 | 50.0 | 107% | 53.4 | 50.0 | 107% | 0.0% |
| Dibromomethane | 50.9 | 50.0 | 102% | 48.3 | 50.0 | 96.6% | 5.2% |
| 1,1,1,2-Tetrachloroethane | 55.5 | 50.0 | 111% | 54.0 | 50.0 | 108% | 2.7% |
| 1,2-Dibromo-3-chloropropane | 45.7 | 50.0 | 91.4% | 45.4 | 50.0 | 90.8% | 0.7% |
| 1,2,3-Trichloropropane | 53.7 | 50.0 | 107% | 54.8 | 50.0 | 110% | 2.0% |
| trans-1,4-Dichloro-2-butene | 48.2 | 50.0 | 96.4% | 48.0 | 50.0 | 96.0% | 0.4% |
| 1,3,5-Trimethylbenzene | 59.2 | 50.0 | 118% | 60.2 | 50.0 | 120% | 1.7% |
| 1,2,4-Trimethylbenzene | 59.0 | 50.0 | 118% | 60.1 | 50.0 | 120% | 1.8% |
| Hexachlorobutadiene | 52.1 | 50.0 | 104% | 55.0 | 50.0 | 110% | 5.4% |
| Ethylene Dibromide | 53.3 | 50.0 | 107% | 50.9 | 50.0 | 102% | 4.6% |
| Bromochloromethane | 55.3 | 50.0 | 111% | 58.9 | 50.0 | 118% | 6.3% |
| 2,2-Dichloropropane | 55.7 | 50.0 | 111% | 56.8 | 50.0 | 114% | 2.0% |
| 1,3-Dichloropropane | 55.6 | 50.0 | 111% | 53.6 | 50.0 | 107% | 3.7% |
| Isopropylbenzene | 60.3 | 50.0 | 121% | 60.7 | 50.0 | 121% | 0.7% |
| n-Propylbenzene | 55.8 | 50.0 | 112% | 57.6 | 50.0 | 115% | 3.2% |
| Bromobenzene | 54.6 | 50.0 | 109% | 55.0 | 50.0 | 110% | 0.7% |
| 2-Chlorotoluene | 56.3 | 50.0 | 113% | 55.5 | 50.0 | 111% | 1.4% |
| 4-Chlorotoluene | 55.3 | 50.0 | 111% | 61.3 | 50.0 | 123% | 10.3% |
| tert-Butylbenzene | 58.3 | 50.0 | 117% | 58.6 | 50.0 | 1178 | 0.5% |
| sec-Butylbenzene | 58.0 | 50.0 | 116% | 60.3 | 50.0 | 121% | 3.9% |
| 4-Isopropyltoluene | 61.8 Q | 50.0 | 124% | 65.1 Q | 50.0 | 130% | 5.2% |
| n-Butylbenzene | 59.3 Q | 50.0 | 119% | 63.5 Q | 50.0 | 127% | 6.8% |
| 1,2,4-Trichlorobenzene | 51.1 | 50.0 | 102% | 55.5 | 50.0 | 111% | 8.3% |
| Naphthalene | 48.5 | 50.0 | 97.0% | 48.2 | 50.0 | 96.4% | 0.6% |
| 1,2,3-Trichlorobenzene | 47.8 | 50.0 | 95.6% | 49.3 | 50.0 | 98.6% | 3.1% |

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

| | LCS | LCSD |
|------------------------|-------|-------|
| d4-1,2-Dichloroethane | 81.5% | 91.3% |
| d8-Toluene | 96.1% | 94.5% |
| Bromofluorobenzene | 98.8% | 96.9% |
| d4-1,2-Dichlorobenzene | 97.2% | 97.6% |



| VOLATILES SUMMARY 01/28/11 Page 1 of 1 | | ARI Job No: SG59 |
|---|--------------|---------------------------|
| | INCORPORATED | PC: Kelly |
| Inquiry Number: NONE | | VTSR: 01/27/11 16:00 |
| Analysis Requested: 01/28/11 | | Data Due: 02/08/11 |
| Contact: Flaherty, Joe | | |
| Client: The Boeing Company | | Project #: 025195.003.032 |
| Logged by: JM | | Project: Striker |
| Sample Set Used: Yes- <u>481</u> | | Sample Site: |
| Validatable Package: No | | SDG No: |
| Deliverables Require Spectne (Circle one) | | See enclosed instructions |
| VOA Water RL (ug/L): 1 0.2 See QAPE | 2 | No enclosed instructions |
| Special Instructions All Samples: | | |
| WATER | 5 | |
| | | |

10 Sample(s) * Sample(s) Preserved **Samples(s) Preserved, No Sampling Time

| GC/MS VOA Anal | | | | | | | | | |
|-------------------|------------|---|---------------|--|---------------|------------|------------------------------------|-------------|--|
| 1,1,1,2-Tetrach1o | | 1,1,1-Trich1 | | | 2-Tetrachloro | ethane | 1,1,2-Trichloro- | 1,2,2-trifl | |
| 1,1,2-Trichloroet | hane . | 1,1-Dichloro | ethane | 1,1-Di | chloroethene | | 1,1-Dichloroprop | ene | |
| 1,2,3-Trichlorobe | enzene | 1,2,3-Trichl | | 1,2,4- | Trichlorobenz | ene | 1,2,4-Trimethylb | enzene | |
| 1,2-Dibromo-3-chl | oropropane | 1,2-Dichloro | oenzene | 1,2-Di | chloroethane | | 1,2-Dichloroprop | ane | |
| 1,3,5-Trimethylbe | enzene | 1,3-Dichloro | oenzene | 1,3-Di | chloropropane | | 1,4-Dichlorobenz | ene | |
| 2,2-Dichloropropa | ine | 2-Butanone | | 2-Chlo | roethylvinyle | ther | 2-Chlorotoluene | | |
| 2-Hexanone | | 4-Chlorotolu | ene | 4-Isop | ropyltoluene | | 4-Methyl-2-Penta | none (MIBK) | |
| Acetone | | Acrolein | | Acrylo | nitrile | | Benzene | | |
| Bromobenzene | | Bromochlorom | ethane | Bromod | ichloromethan | e | Bromoethane | | |
| Bromoform | | Bromomethane | | Carbon | Disulfide | | Carbon Tetrachlo | ride | |
| Chlorobenzene | | Chloroethane | | Chloro | form | | Chloromethane | | |
| cis-1,2-Dichloroe | thene | cis-1,3-Dich | | Dibromochloromethane | | | Dibromomethane | | |
| Ethylbenzene | | Ethylene Dibromide Methyl Iodide Naphthalene tert-Butylbenzene | | Hexachlorobutadiene Methylene Chloride o-Xylene Tetrachloroethene | | | Isopropylbenzene | | |
| m,p-Xylene | | | | | | | n-Butylbenzene sec-Butylbenzene | | |
| n-Propylbenzene | | | | | | | | | |
| Styrene | | | | | | | Toluene | | |
| trans-1,2-Dichlor | oethene | trans-1,3-Di | chloropropene | trans-1,4-Dichloro-2-butene | | | Trichloroethene | | |
| Trichlorofluorome | thane | Vinyl Acetate | | Vinyl Chloride | | | | | |
| GC/MS VOA Surn | rogates | | | _ | | | | | |
| Bromofluorobenzen | - | d4-1,2-Dichlorobenzene | | d4-1,2-Dichloroethane | | | d8-Toluene | | |
| | | : | | Sampling | Holding | SW8260C | : | | |
| ARI ID | Client I | D | Matrix | Date | Time Up | VOA | Rtype | | |
| 11-1806-SG59A | KSC-DP-1 | 7-GW-110127 | Water | 01/27/11 | 02/10/11* | X(71) | 1 | | |
| 11-1807-SG59B | KSC-DP-2 | 0-GW-110127 | Water | 01/27/11 | 02/10/11* | X(71) | 1 | | |
| 11-1808-SG59C | KSC-DP-1 | 9-GW-110127 | Water | 01/27/11 | 02/10/11* | X(71) | 1 | | |
| 11-1809-SG59D | | 8-GW-110127 | Water | 01/27/11 | 02/10/11* | X(71) | 1 | | |
| 11-1810-SG59E | | 7-S-4-5-1101 | | 01/27/11 | 02/10/11 | X(71) | 2 | | |
| TT TOTO 00000 | | | 2,0011 | ST/5//TT | 02/10/11 | 4× \ / ± / | 2 | | |

| TT TOTO 20000 | NOC DI I/ D I O IIOI | 2/0011 | 01/2//11 | 02/10/11 | $\Lambda (' \perp)$ | 2 | |
|---------------|----------------------|--------|----------|------------|-----------------------|---|--|
| 11-1811-SG59F | KSC-DP-20-S-4.5-5.5- | 11Soil | 01/27/11 | 02/10/11 | X(71) | 2 | |
| 11-1812-SG59G | KSC-DP-19-S-3.5-4.5- | 11Soil | 01/27/11 | 02/10/11 | X(71) | 2 | |
| 11-1813-SG59H | KSC-DP-18-S-4-5-1101 | 27Soil | 01/27/11 | 02/10/11 | X(71) | 2 | |
| 11-1814-SG59I | KSC-DP-21-S-3-3.5-11 | 01Soil | 01/27/11 | 02/10/11 | X(71) | 2 | |
| 11-1815-SG59J | ТВ | Water | 01/27/11 | 02/09/11** | X(71) | 1 | |
| | | | | | | | |

VOA Special Instructions: None

 Sample
 Condition
 Sample Comment-All Analyses

 11-1806-SG59A
 11-1807-SG59B

 11-1808-SG59C
 11-1809-SG59D

Les/LesD

PM OK ER Date 28

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

INCORPORATED Sample ID: KSC-DP-17-GW-110127 SAMPLE

ANALYTICAL RESOURCES

Lab Sample ID: SG59A LIMS ID: 11-1806 Matrix: Water Data Release Authorized: M Reported: 01/31/11

Instrument/Analyst: NT3/PKC Date Analyzed: 01/28/11 16:11 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Sample Amount: 10.0 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 0.5 | < 0.5 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 0.2 | 0.8 | |
| 75-00 - 3 | Chloroethane | 0.2 | < 0.2 | U |
| 75-09-2 | Methylene Chloride | 0.5 | < 0.5 | U |
| 67-64-1 | Acetone | 5.0 | < 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.2 | < 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.2 | < 0.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.2 | < 0.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.2 | 0.2 | |
| 67-66-3 | Chloroform | 0.2 | < 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | Ū |
| 78-93-3 | 2-Butanone | 5.0 | < 5.0 | Ū |
| 71-55-6 | 1,1,1-Trichloroethane | 0.2 | < 0.2 | Ū |
| 56-23-5 | Carbon Tetrachloride | 0.2 | < 0.2 | Ū |
| 108-05-4 | Vinvl Acetate | 1.0 | < 1.0 | Ū |
| 75-27-4 | Bromodichloromethane | 0.2 | < 0.2 | Ū |
| 78-87-5 | 1,2-Dichloropropane | 0.2 | < 0.2 | Ū |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.2 | < 0.2 | Ū |
| 79-01-6 | Trichloroethene | 0.2 | < 0.2 | Ŭ |
| 124-48-1 | Dibromochloromethane | 0.2 | < 0.2 | Ū |
| 79-00-5 | 1,1,2-Trichloroethane | 0.2 | < 0.2 | U |
| 71-43-2 | Benzene | 0.2 | < 0.2 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 110-75-8 | 2-Chloroethylvinylether | 1.0 | < 1.0 | Ū |
| 75-25-2 | Bromoform | 0.2 | < 0.2 | Ū |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | < 5.0 | Ū |
| 591-78-6 | 2-Hexanone | 5.0 | < 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.2 | < 0.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 108-88-3 | Toluene | 0.2 | < 0.2 | U |
| 108-90-7 | Chlorobenzene | 0.2 | < 0.2 | U |
| 100-41-4 | Ethylbenzene | 0.2 | < 0.2 | U |
| 100-42-5 | Styrene | 0.2 | < 0.2 | U |
| 75-69-4 | Trichlorofluoromethane | 0.2 | < 0.2 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | 0.2 | < 0.2 | U |
| 179601-23-1 | m,p-Xylene | 0.4 | < 0.4 | U |
| 95-47-6 | o-Xylene | 0.2 | < 0.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.2 | < 0.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.2 | < 0.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0,2 | < 0.2 | U |
| 107-02-8 | Acrolein | 5.0 | < 5.0 | U |
| | | | | |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: KSC-DP-17-GW-110127 SAMPLE

Lab Sample ID: SG59A LIMS ID: 11-1806 Matrix: Water Date Analyzed: 01/28/11 16:11 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 0.2 | < 0.2 | U |
| 107-13-1 | Acrylonitrile | 1.0 | < 1.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.2 | < 0.2 | U |
| 74-95-3 | Dibromomethane | 0.2 | < 0.2 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.5 | < 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | < 0.5 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 1.0 | < 1.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.2 | < 0.2 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.2 | < 0.2 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | < 0.5 | U |
| 106-93-4 | Ethylene Dibromide | 0.2 | < 0.2 | U |
| 74-97-5 | Bromochloromethane | 0.2 | < 0.2 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.2 | < 0.2 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.2 | < 0.2 | U |
| 98-82-8 | Isopropylbenzene | 0.2 | < 0.2 | U |
| 103-65-1 | n-Propylbenzene | 0.2 | < 0.2 | U |
| 108-86-1 | Bromobenzene | 0.2 | < 0.2 | U |
| 95-49-8 | 2-Chlorotoluene | 0.2 | < 0.2 | U |
| 106-43-4 | 4-Chlorotoluene | 0.2 | < 0.2 | U |
| 98-06-6 | tert-Butylbenzene | 0.2 | < 0.2 | U |
| 135-98-8 | sec-Butylbenzene | 0.2 | < 0.2 | U |
| 99-87-6 | 4-Isopropyltoluene | 0.2 | < 0.2 | U |
| 104-51-8 | n-Butylbenzene | 0.2 | < 0.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | < 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | < 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | < 0.5 | U |

Reported in $\mu g/L$ (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 98.2% |
|------------------------|-------|
| d8-Toluene | 99.0% |
| Bromofluorobenzene | 99.7% |
| d4-1,2-Dichlorobenzene | 99.7% |

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

INCORPORATED Sample ID: KSC-DP-20-GW-110127 SAMPLE

ANALYTICAL RESOURCES

Lab Sample ID: SG59B LIMS ID: 11-1807 Matrix: Water Data Release Authorized: Reported: 01/31/11

Instrument/Analyst: NT3/PKC Date Analyzed: 01/28/11 16:38

.

QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Sample Amount: 10.0 mL Purge Volume: 10.0 mL

| CAS Number | Analyte · | RL | Result | Q |
|-------------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 0.5 | < 0.5 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 0.2 | < 0.2 | U |
| 75-00-3 | Chloroethane | 0.2 | < 0.2 | U |
| 75-09-2 | Methylene Chloride | 0.5 | < 0.5 | U |
| 67-64-1 | Acetone | 5.0 | 5.2 | |
| 75-15-0 | Carbon Disulfide | 0.2 | < 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.2 | < 0.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.2 | < 0.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 156 - 59-2 | cis-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 67-66-3 | Chloroform | 0.2 | < 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |
| 78-93-3 | 2-Butanone | 5.0 | < 5.0 | U |
| 71-55 - 6 | 1,1,1-Trichloroethane | 0.2 | < 0.2 | U |
| 56-23-5 | Carbon Tetrachloride | 0.2 | < 0.2 | U |
| 108-05-4 | Vinyl Acetate | 1.0 | < 1.0 | U |
| 75-27-4 | Bromodichloromethane | 0.2 | < 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.2 | < 0.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 79-01-6 | Trichloroethene | 0.2 | < 0.2 | U |
| 124-48-1 | Dibromochloromethane | 0.2 | < 0.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.2 | < 0.2 | U |
| 71-43-2 | Benzene | 0.2 | < 0.2 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 110-75-8 | 2-Chloroethylvinylether | 1.0 | < 1.0 | U |
| 75-25-2 | Bromoform | 0.2 | < 0.2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | < 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | < 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.2 | < 0.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 108-88-3 | Toluene | 0.2 | 0.2 | |
| 108-90-7 | Chlorobenzene | 0.2 | < 0.2 | U |
| 100-41-4 | Ethylbenzene | 0.2 | < 0.2 | U |
| 100-42-5 | Styrene | 0.2 | < 0.2 | U |
| 75-69-4 | Trichlorofluoromethane | 0.2 | < 0.2 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | 0.2 | < 0.2 | U |
| 179601-23-1 | m,p-Xylene | 0.4 | < 0.4 | U |
| 95-47-6 | o-Xylene | 0.2 | < 0.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.2 | < 0.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.2 | < 0.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.2 | < 0.2 | U |
| 107-02-8 | Acrolein | 5.0 | < 5.0 | U |
| | | | | |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

INCORPORATED Sample ID: KSC-DP-20-GW-110127 SAMPLE

ANALYTICAL RESOURCES

Lab Sample ID: SG59B LIMS ID: 11-1807 Matrix: Water Date Analyzed: 01/28/11 16:38 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 0.2 | < 0.2 | U |
| 107-13-1 | Acrylonitrile | 1.0 | < 1.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.2 | < 0.2 | U |
| 74-95-3 | Dibromomethane | 0.2 | < 0.2 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.5 | < 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | < 0.5 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 1.0 | < 1.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.2 | < 0.2 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.2 | < 0.2 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | < 0.5 | U |
| 106-93-4 | Ethylene Dibromide | 0.2 | < 0.2 | U |
| 74-97-5 | Bromochloromethane | 0.2 | < 0.2 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.2 | < 0.2 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.2 | < 0.2 | U |
| 98-82-8 | Isopropylbenzene | 0.2 | < 0.2 | U |
| 103-65-1 | n-Propylbenzene | 0.2 | < 0.2 | U |
| 108-86-1 | Bromobenzene | 0.2 | < 0.2 | U |
| 95-49-8 | 2-Chlorotoluene | 0.2 | < 0.2 | U |
| 106-43-4 | 4-Chlorotoluene | 0.2 | < 0.2 | U |
| 98-06-6 | tert-Butylbenzene | 0.2 | < 0.2 | U |
| 135-98-8 | sec-Butylbenzene | 0.2 | < 0.2 | U |
| 99-87-6 | 4-Isopropyltoluene | 0.2 | < 0.2 | U |
| 104-51-8 | n-Butylbenzene | 0.2 | < 0.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | < 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | < 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | < 0.5 | U |

Reported in µg/L (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 102% |
|------------------------|-------|
| d8-Toluene | 99.2% |
| Bromofluorobenzene | 99.7% |
| d4-1,2-Dichlorobenzene | 98.7% |

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: KSC-DP-19-GW-110127

SAMPLE

Lab Sample ID: SG59C LIMS ID: 11-1808 Matrix: Water Data Release Authorized: Reported: 01/31/11

Instrument/Analyst: NT3/PKC Date Analyzed: 01/28/11 17:05 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Sample Amount: 10.0 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 0.5 | < 0.5 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 0.2 | 0.2 | |
| 75-00-3 | Chloroethane | 0.2 | < 0.2 | U |
| 75-09-2 | Methylene Chloride | 0.5 | < 0.5 | U |
| 67-64-1 | Acetone | 5.0 | < 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.2 | < 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.2 | < 0.2 | U |
| 75 - 34-3 | 1,1-Dichloroethane | 0.2 | < 0.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 67-66-3 | Chloroform | 0.2 | < 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |
| 78-93-3 | 2-Butanone | 5.0 | < 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.2 | < 0.2 | U |
| 56-23-5 | Carbon Tetrachloride | 0.2 | < 0.2 | U |
| 108-05-4 | Vinyl Acetate | 1.0 | < 1.0 | U |
| 75-27-4 | Bromodichloromethane | 0.2 | < 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.2 | < 0.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 79-01-6 | Trichloroethene | 0.2 | < 0.2 | U |
| 124-48-1 | Dibromochloromethane | 0.2 | < 0.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.2 | < 0.2 | U |
| 71-43-2 | Benzene | 0.2 | < 0.2 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 110-75-8 | 2-Chloroethylvinylether | 1.0 | < 1.0 | U |
| 75-25-2 | Bromoform | 0.2 | < 0.2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | < 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | < 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.2 | < 0.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 108-88-3 | Toluene | 0.2 | 0.6 | |
| 108-90-7 | Chlorobenzene | 0.2 | < 0.2 | U |
| 100-41-4 | Ethylbenzene | 0.2 | < 0.2 | U |
| 100-42-5 | Styrene | 0.2 | < 0.2 | U |
| 75-69-4 | Trichlorofluoromethane | 0.2 | < 0.2 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | | < 0.2 | U |
| 179601-23-1 | m,p-Xylene | 0.4 | < 0.4 | U |
| 95-47-6 | o-Xylene | 0.2 | < 0.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.2 | < 0.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.2 | < 0.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.2 | < 0.2 | U |
| 107-02-8 | Acrolein | 5.0 | < 5.0 | U |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2 INCORPORATED Sample ID: KSC-DP-19-GW-110127 SAMPLE

ANALYTICAL RESOURCES

Lab Sample ID: SG59C LIMS ID: 11-1808 Matrix: Water Date Analyzed: 01/28/11 17:05 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 0.2 | < 0.2 | U |
| 107-13-1 | Acrylonitrile | 1.0 | < 1.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.2 | < 0.2 | U |
| 74-95-3 | Dibromomethane | 0.2 | < 0.2 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.5 | < 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | < 0.5 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 1.0 | < 1.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.2 | < 0.2 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.2 | < 0.2 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | < 0.5 | U |
| 106-93-4 | Ethylene Dibromide | 0.2 | < 0.2 | U |
| 74-97-5 | Bromochloromethane | 0.2 | < 0.2 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.2 | < 0.2 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.2 | < 0.2 | U |
| 98-82-8 | Isopropylbenzene | 0.2 | < 0.2 | U |
| 103-65-1 | n-Propylbenzene | 0.2 | < 0.2 | U |
| 108-86-1 | Bromobenzene | 0.2 | < 0.2 | U |
| 95-49-8 | 2-Chlorotoluene | 0.2 | < 0.2 | U |
| 106-43-4 | 4-Chlorotoluene | 0.2 | < 0.2 | U |
| 98-06-6 | tert-Butylbenzene | 0.2 | < 0.2 | U |
| 135-98-8 | sec-Butylbenzene | 0.2 | < 0.2 | U |
| 99-87-6 | 4-Isopropyltoluene | 0.2 | < 0.2 | U |
| 104-51-8 | n-Butylbenzene | 0.2 | < 0.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | < 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | < 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | < 0.5 | U |

Reported in $\mu g/L$ (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 103% |
|------------------------|-------|
| d8-Toluene | 100% |
| Bromofluorobenzene | 100% |
| d4-1,2-Dichlorobenzene | 98.5% |

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: KSC-DP-18-GW-110127

SAMPLE

Lab Sample ID: SG59D LIMS ID: 11-1809 Matrix: Water Data Release Authorized: Reported: 01/31/11

Instrument/Analyst: NT3/PKC Date Analyzed: 01/28/11 17:31 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Sample Amount: 10.0 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|------------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 0.5 | < 0.5 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 0.2 | 1.4 | |
| 75-00-3 | Chloroethane | 0.2 | < 0.2 | U |
| 75-09-2 | Methylene Chloride | 0.5 | < 0.5 | U |
| 67-64-1 | Acetone | 5.0 | < 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.2 | < 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.2 | < 0.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.2 | < 0.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.2 | 0.4 | |
| 67-66-3 | Chloroform | 0.2 | < 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |
| 78-93-3 | 2-Butanone | 5.0 | < 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.2 | < 0.2 | U |
| 56-23-5 | Carbon Tetrachloride | 0.2 | < 0.2 | U |
| 108-05-4 | Vinyl Acetate | 1.0 | < 1.0 | U |
| 75-27-4 | Bromodichloromethane | 0.2 | < 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.2 | < 0.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 79-01-6 | Trichloroethene | 0.2 | < 0.2 | U |
| 124-48-1 | Dibromochloromethane | 0.2 | < 0.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.2 | < 0.2 | U |
| 71-43-2 | Benzene | 0.2 | < 0.2 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 110-75-8 | 2-Chloroethylvinylether | 1.0 | < 1.0 | U |
| 75-25-2 | Bromoform | 0.2 | < 0.2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | < 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | < 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.2 | < 0.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 108-88-3 | Toluene | 0.2 | 0.2 | |
| 108-90-7 | Chlorobenzene | 0.2 | < 0.2 | U |
| 100-41-4 | Ethylbenzene | 0.2 | < 0.2 | U |
| 100-42-5 | Styrene | 0.2 | < 0.2 | U |
| 75 - 69-4 | Trichlorofluoromethane | 0.2 | < 0.2 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | | < 0.2 | U |
| 179601-23-1 | m,p-Xylene | 0.4 | < 0.4 | U |
| 95-47-6 | o-Xylene | 0.2 | < 0.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.2 | < 0.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.2 | < 0.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.2 | < 0.2 | U |
| 107-02-8 | Acrolein | 5.0 | < 5.0 | Ŭ |

ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

INCORPORATED Sample ID: KSC-DP-18-GW-110127 SAMPLE

ANALYTICAL RESOURCES

Lab Sample ID: SG59D LIMS ID: 11-1809 Matrix: Water Date Analyzed: 01/28/11 17:31 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 0.2 | < 0.2 | U |
| 107-13-1 | Acrylonitrile | 1.0 | < 1.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.2 | < 0.2 | U |
| 74-95-3 | Dibromomethane | 0.2 | < 0.2 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.5 | < 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | < 0.5 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 1.0 | < 1.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.2 | < 0.2 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.2 | < 0.2 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | < 0.5 | U |
| 106-93-4 | Ethylene Dibromide | 0.2 | < 0.2 | U |
| 74-97-5 | Bromochloromethane | 0.2 | < 0.2 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.2 | < 0.2 | U |
| 142-28-9 | 1,3~Dichloropropane | 0.2 | < 0.2 | U |
| 98-82-8 | Isopropylbenzene | 0.2 | < 0.2 | U |
| 103-65-1 | n-Propylbenzene | 0.2 | < 0.2 | U |
| 108-86-1 | Bromobenzene | 0.2 | < 0.2 | U |
| 95-49-8 | 2-Chlorotoluene | 0.2 | < 0.2 | U |
| 106-43-4 | 4-Chlorotoluene | 0.2 | < 0.2 | U |
| 98-06-6 | tert-Butylbenzene | 0.2 | < 0.2 | U |
| 135-98-8 | sec-Butylbenzene | 0.2 | < 0.2 | U |
| 99-87-6 | 4-Isopropyltoluene | 0.2 | < 0.2 | U |
| 104-51-8 | n-Butylbenzene | 0.2 | < 0.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | < 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | < 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | < 0.5 | U |

Reported in µg/L (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 105% |
|------------------------|-------|
| d8-Toluene | 97.8% |
| Bromofluorobenzene | 99.0% |
| d4-1,2-Dichlorobenzene | 1018 |

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: TB

SAMPLE

Lab Sample ID: SG59J LIMS ID: 11-1815 Matrix: Water Data Release Authorized: A Reported: 01/31/11

Instrument/Analyst: NT3/PKC Date Analyzed: 01/28/11 15:44 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Sample Amount: 10.0 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|-------------------|----------------------------------|-----|--------|----|
| 74-87-3 | Chloromethane | 0.5 | < 0.5 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 0.2 | < 0.2 | U |
| 75-00-3 | Chloroethane | 0.2 | < 0.2 | U |
| 75-09-2 | Methylene Chloride | 0.5 | < 0.5 | U. |
| 67-64-1 | Acetone | 5.0 | < 5.0 | Ū |
| 75-15-0 | Carbon Disulfide | 0.2 | < 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.2 | < 0.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.2 | < 0.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 156-59 - 2 | cis-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 67-66-3 | Chloroform | 0.2 | < 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |
| 78-93-3 | 2-Butanone | 5.0 | < 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.2 | < 0.2 | U |
| 56-23-5 | Carbon Tetrachloride | 0.2 | < 0.2 | U |
| 108-05-4 | Vinyl Acetate | 1.0 | < 1.0 | U |
| 75-27-4 | Bromodichloromethane | 0.2 | < 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.2 | < 0.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 79-01-6 | Trichloroethene | 0.2 | < 0.2 | U |
| 124-48-1 | Dibromochloromethane | 0.2 | < 0.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.2 | < 0.2 | U |
| 71-43-2 | Benzene | 0.2 | < 0.2 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 110-75-8 | 2-Chloroethylvinylether | 1.0 | < 1.0 | U |
| 75-25-2 | Bromoform | 0.2 | < 0.2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | < 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.0 | < 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.2 | < 0.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 108-88-3 | Toluene | 0.2 | < 0.2 | U |
| 108-90-7 | Chlorobenzene | 0.2 | < 0.2 | U |
| 100 - 41 - 4 | Ethylbenzene | 0.2 | < 0.2 | U |
| 100-42-5 | Styrene | 0.2 | < 0.2 | Ŭ |
| 75-69-4 | Trichlorofluoromethane | 0.2 | < 0.2 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | | < 0.2 | U |
| 179601-23-1 | m,p-Xylene | 0.4 | < 0.4 | U |
| 95-47-6 | o-Xylene | 0.2 | < 0.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.2 | < 0.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.2 | < 0.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.2 | < 0.2 | U |
| 107-02-8 | Acrolein | 5.0 | < 5.0 | U |



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: TB SAMPLE

Lab Sample ID: SG59J LIMS ID: 11-1815 Matrix: Water Date Analyzed: 01/28/11 15:44 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74-96-4 | Bromoethane | 0.2 | < 0.2 | U |
| 107-13-1 | Acrylonitrile | 1.0 | < 1.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.2 | < 0.2 | U |
| 74-95-3 | Dibromomethane | 0.2 | < 0.2 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.5 | < 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | < 0.5 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 1.0 | < 1.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.2 | < 0.2 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.2 | < 0.2 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | < 0.5 | U |
| 106-93-4 | Ethylene Dibromide | 0.2 | < 0.2 | U |
| 74-97-5 | Bromochloromethane | 0.2 | < 0.2 | U |
| 594-20-7 | 2,2-Dichloropropane | 0.2 | < 0.2 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.2 | < 0.2 | U |
| 98-82-8 | Isopropylbenzene | 0.2 | < 0.2 | U |
| 103-65-1 | n-Propylbenzene | 0.2 | < 0.2 | U |
| 108-86-1 | Bromobenzene | 0.2 | < 0.2 | U |
| 95-49-8 | 2-Chlorotoluene | 0.2 | < 0.2 | U |
| 106-43-4 | 4-Chlorotoluene | 0.2 | < 0.2 | U |
| 98-06-6 | tert-Butylbenzene | 0.2 | < 0.2 | U |
| 135-98-8 | sec-Butylbenzene | 0.2 | < 0.2 | U |
| 99-87-6 | 4-Isopropyltoluene | 0.2 | < 0.2 | U |
| 104-51-8 | n-Butylbenzene | 0.2 | < 0.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.5 | < 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | < 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | < 0.5 | U |

Reported in μ g/L (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 88.8% |
|------------------------|-------|
| d8-Toluene | 101% |
| Bromofluorobenzene | 96.0% |
| d4-1,2-Dichlorobenzene | 94.6% |

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: MB-012811 METHOD BLANK

Lab Sample ID: MB-012811 LIMS ID: 11-1806 Matrix: Water Data Release Authorized: 10 Reported: 01/31/11

Instrument/Analyst: NT3/PKC Date Analyzed: 01/28/11 11:58 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

Sample Amount: 10.0 mL Purge Volume: 10.0 mL

| CAS Number | Analyte | RL | Result | Q |
|-----------------------|----------------------------------|-----|--------|---|
| 74-87-3 | Chloromethane | 0.5 | < 0.5 | U |
| 74-83-9 | Bromomethane | 1.0 | < 1.0 | U |
| 75-01-4 | Vinyl Chloride | 0.2 | < 0.2 | U |
| 75-00-3 | Chloroethane | 0.2 | < 0.2 | U |
| 75-09-2 | Methylene Chloride | 0.5 | < 0.5 | U |
| 67-64-1 | Acetone | 5.0 | < 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.2 | < 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.2 | < 0.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.2 | < 0.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.2 | < 0.2 | U |
| 67-66-3 | Chloroform | 0.2 | < 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.2 | < 0.2 | U |
| 78-93-3 | 2-Butanone | 5.0 | < 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.2 | < 0.2 | U |
| 56-23-5 | Carbon Tetrachloride | 0.2 | < 0.2 | U |
| 108-05-4 | Vinyl Acetate | 1.0 | < 1.0 | U |
| 75-27-4 | Bromodichloromethane | 0.2 | < 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.2 | < 0.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 79-01-6 | Trichloroethene | 0.2 | < 0.2 | U |
| 124-48-1 | Dibromochloromethane | 0.2 | < 0.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.2 | < 0.2 | U |
| 71-43 - 2 | Benzene | 0.2 | < 0.2 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.2 | < 0.2 | U |
| 110-75-8 | 2-Chloroethylvinylether | 1.0 | < 1.0 | U |
| 75-25-2 | Bromoform | 0.2 | < 0.2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone (MIBK) | 5.0 | < 5.0 | U |
| 591-78 - 6 | 2-Hexanone | 5.0 | < 5.0 | U |
| 127-18-4 | Tetrachloroethene | 0.2 | < 0.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 108-88-3 | Toluene | 0.2 | < 0.2 | U |
| 108-90-7 | Chlorobenzene | 0.2 | < 0.2 | U |
| 100-41-4 | Ethylbenzene | 0.2 | < 0.2 | U |
| 100-42-5 | Styrene | 0.2 | < 0.2 | U |
| 75-69-4 | Trichlorofluoromethane | 0.2 | < 0.2 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroe | 0.2 | < 0.2 | U |
| 179601-23-1 | m,p-Xylene | 0.4 | < 0.4 | U |
| 95-47-6 | o-Xylene | 0.2 | < 0.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.2 | < 0.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.2 | < 0.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.2 | < 0.2 | U |
| 107-02-8 | Acrolein | 5.0 | < 5.0 | U |



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: MB-012811 METHOD BLANK

Lab Sample ID: MB-012811 LIMS ID: 11-1806 Matrix: Water Date Analyzed: 01/28/11 11:58 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| CAS Number | Analyte | RL | Result | Q |
|-------------------|-----------------------------|-----|--------|---|
| 74-88-4 | Methyl Iodide | 1.0 | < 1.0 | U |
| 74 - 96-4 | Bromoethane | 0.2 | < 0.2 | U |
| 107-13-1 | Acrylonitrile | 1.0 | < 1.0 | U |
| 563-58-6 | 1,1-Dichloropropene | 0.2 | < 0.2 | U |
| 74-95-3 | Dibromomethane | 0.2 | < 0.2 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.2 | < 0.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.5 | < 0.5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 0.5 | < 0.5 | U |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 1.0 | < 1.0 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.2 | < 0.2 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.2 | < 0.2 | U |
| 87-68-3 | Hexachlorobutadiene | 0.5 | 0.5 | |
| 106-93-4 | Ethylene Dibromide | 0.2 | < 0.2 | U |
| 74-97-5 | Bromochloromethane | 0.2 | < 0.2 | U |
| 594 - 20-7 | 2,2-Dichloropropane | 0.2 | < 0.2 | U |
| 142-28-9 | 1,3-Dichloropropane | 0.2 | < 0.2 | U |
| 98-82-8 | Isopropylbenzene | 0.2 | < 0.2 | U |
| 103-65-1 | n-Propylbenzene | 0.2 | < 0.2 | U |
| 108-86-1 | Bromobenzene | 0.2 | < 0.2 | U |
| 95 - 49-8 | 2-Chlorotoluene | 0.2 | < 0.2 | U |
| 106-43-4 | 4-Chlorotoluene | 0.2 | < 0.2 | U |
| 98-06-6 | tert-Butylbenzene | 0.2 | < 0.2 | U |
| 135-98-8 | sec-Butylbenzene | 0.2 | < 0.2 | U |
| 99-87-6 | 4-Isopropyltoluene | 0.2 | < 0.2 | U |
| 104-51-8 | n-Butylbenzene | 0.2 | < 0.2 | U |
| 120-82-1 | l,2,4-Trichlorobenzene | 0.5 | < 0.5 | U |
| 91-20-3 | Naphthalene | 0.5 | < 0.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.5 | < 0.5 | U |

Reported in µg/L (ppb)

Volatile Surrogate Recovery

| d4-1,2-Dichloroethane | 100% |
|------------------------|-------|
| d8-Toluene | 100% |
| Bromofluorobenzene | 99.1% |
| d4-1,2-Dichlorobenzene | 101% |



Matrix: Water

QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| ARI ID | Client ID | PV | DCE | TOL | BFB | DCB | TOT OUT |
|--|--|--|---|---|--|---|---------|
| MB-012811 LCS-012811 LCSD-012811 SG59A SG59B SG59C SG59D | Method Blank Lab Control Lab Control Dup KSC-DP-17-GW-110127 KSC-DP-20-GW-110127 KSC-DP-19-GW-110127 KSC-DP-18-GW-110127 | 10 10 10 10 10 10 10 | 100% 103% 104% 98.2% 102% 103% 105% | 100% 100% 101% 99.0% 99.2% 100% 97.8% | 99.1% 96.9% 99.7% 99.7% 99.7% 100% 99.0% | 101% 97.8% 99.9% 99.7% 98.7% 98.5% 101% | |
| SG59J | TB | 10 | 88.8% | 101% | 96.0% | 94.6% | 0 |
| SW8260C | | LCS | MB LIM | ITS | | QC LIMIT | 'S |
| (DCE) = d4-1, (TOL) = d8-TC (BFB) = Brome | 2-Dichloroethane Duene fluorobenzene 2-Dichlorobenzene | | 80-120 80-120 80-120 80-120 | | | 80-120 80-120 80-120 80-120 |) |

Prep Method: SW5030B Log Number Range: 11-1806 to 11-1815.



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 1 of 2

Sample ID: LCS-012811 LAB CONTROL SAMPLE

Lab Sample ID: LCS-012811 LIMS ID: 11-1806 Matrix: Water Data Release Authorized: Reported: 01/31/11

Instrument/Analyst LCS: NT3/PKC LCSD: NT3/PKC Date Analyzed LCS: 01/28/11 11:04 LCSD: 01/28/11 11:31 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

Sample Amount LCS: 10.0 mL LCSD: 10.0 mL Purge Volume LCS: 10.0 mL LCSD: 10.0 mL

| | | Spike | LCS | | Spike | LCSD | |
|-------------------------------------|-------------|-----------|----------------|-------------|------------|----------------|------|
| Analyte | LCS | Added-LCS | Recovery | LCSD | Added-LCSD | Recovery | RPD |
| Chloromethane | 9.5 | 10.0 | 95.0% | 9.4 | 10.0 | 94.0% | 1.1% |
| Bromomethane | 10.1 | 10.0 | 101% | 10.1 | 10.0 | 101% | 0.0% |
| Vinyl Chloride | 9.7 | 10.0 | 97.0% | 9.3 | 10.0 | 93.0% | 4.2% |
| Chloroethane | 10.0 | 10.0 | 100% | 9.8 | 10.0 | 98.0% | 2.0% |
| Methylene Chloride | 9.6 | 10.0 | 96.0% | 9.6 | 10.0 | 96.0% | 0.0% |
| Acetone | 46.5 | 50.0 | 93.0% | 47.7 | 50.0 | 95.4% | 2.5% |
| Carbon Disulfide | 10.0 | 10.0 | 100% | 9.8 | 10.0 | 98.0% | 2.0% |
| 1,1-Dichloroethene | 9.8 | 10.0 | 98.0% | 9.7 | 10.0 | 97.0% | 1.0% |
| 1,1-Dichloroethane | 9.8 | 10.0 | 98.0% | 9.7 | 10.0 | 97.0% | 1.0% |
| trans-1,2-Dichloroethene | 10.0 | 10.0 | 100% | 10.0 | 10.0 | 100% | 0.0% |
| cis-1,2-Dichloroethene | 9.8 | 10.0 | 98.0% | 9.8 | 10.0 | 98.0% | 0.0% |
| Chloroform | 9.8 | 10.0 | 98.0% | 9.9 | 10.0 | 99.0% | 1.0% |
| 1,2-Dichloroethane | 9.7 | 10.0 | 97.0% | 9.7 | 10.0 | 97.0% | 0.0% |
| 2-Butanone | 47.8 | 50.0 | 95.6% | 47.5 | 50.0 | 95.0% | 0.6% |
| 1,1,1-Trichloroethane | 10.2 | 10.0 | 102% | 10.1 | 10.0 | 101% | 1.0% |
| Carbon Tetrachloride | 10.6 | 10.0 | 106% | 10.4 | 10.0 | 1048 | 1.9% |
| Vinyl Acetate | 8.7 | 10.0 | 87.0% | 8.9 | 10.0 | 89.0% | 2.3% |
| Bromodichloromethane | 10.4 | 10.0 | 104% | 10.1 | 10.0 | 101% | 2.98 |
| 1,2-Dichloropropane | 9.7 | 10.0 | 97.0% | 9.4 | 10.0 | 94.0% | 3.18 |
| cis-1,3-Dichloropropene | 10.4 | 10.0 | 104% | 10.0 | 10.0 | 100% | 3.9% |
| Trichloroethene | 9.7 | 10.0 | 97.0% | 9.5 | 10.0 | 95.0% | 2.1% |
| Dibromochloromethane | 10.8 | 10.0 | 108% | 10.6 | 10.0 | 106% | 1.9% |
| 1,1,2-Trichloroethane | 9.6 | 10.0 | 96.0% | 9.6 | 10.0 | 96.0% | 0.08 |
| Benzene | 10.1 | 10.0 | 101% | 9.8 | 10.0 | 98.0% | 3.0% |
| trans-1,3-Dichloropropene | 10.0 | 10.0 | 100% | 9.9 | 10.0 | 99.08 | 1.0% |
| 2-Chloroethylvinylether | 7.8 Q | 10.0 | 78.0% | 8.0 Q | 10.0 | 80.0% | 2.5% |
| Bromoform | 10.7 | 10.0 | 107% | 10.8 | 10.0 | 108% | 0.9% |
| 4-Methy1-2-Pentanone (MIBK) | 49.7 | | 99.4% | 49.3 | 50.0 | 98.6% | 0.88 |
| 2-Hexanone | 55.0 | 50.0 | 110% | 54.4 | 50.0 | 109% | 1.1% |
| Tetrachloroethene | 10.2 | 10.0 | 102% | 10.1 | 10.0 | 101% | 1.0% |
| 1,1,2,2-Tetrachloroethane | 10.4 | 10.0 | 104% | 10.4 | 10.0 | 104% | 0.08 |
| Toluene | 9.8 | 10.0 | 98.0% | 9.5 | 10.0 | 95.0% | 3.1% |
| Chlorobenzene | 10.5 | 10.0 | 105% | 10.3 | 10.0 | 103% | 1.9% |
| Ethylbenzene | 10.9 | 10.0 | 1098 | 10.7 | 10.0 | 107% | 1.9% |
| Styrene | 10.7 | 10.0 | 107% | 10.6 | 10.0 | 106% | 0.98 |
| Trichlorofluoromethane | 10.1 | 10.0 | 101% | 10.1 | 10.0 | 101% | 0.08 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | | 10.0 | 101% | 9.6 | 10.0 | 96.0% | 5.1% |
| m,p-Xylene | 21.4 | 20.0 | 107% | 21.3 | 20.0 | 106% | 0.5% |
| o-Xylene | 10.4 | 10.0 | 104% | 10.5 | 10.0 | 105% | 1.0% |
| 1,2-Dichlorobenzene | 10.2 | 10.0 | 102% | 10.1 | 10.0 | 101% | 1.0% |
| 1,3-Dichlorobenzene | 10.2 | 10.0 | 1028 | 10.1 | 10.0 | 101% | 1.0% |
| 1,4-Dichlorobenzene | 10.4 | 10.0 | 104% | 10.3 | 10.0 | 103% | 0.0% |
| Acrolein | 42.7 | 50.0 | 85.4% | 43.7 | 50.0 | 87.4% | 2.3% |
| Methyl Iodide | 42.7 9.6 | 10.0 | 96.0% | 43.7 9.6 | 10.0 | 96.0% | 2.3% |
| Bromoethane | 9.6 9.6 | 10.0 | 96.08 96.08 | 9.0 | 10.0 | 90.08 97.08 | 1.0% |
| Dromoethane | 3.0 | TO.O | 20.00 | 5.1 | TO.0 | 31.00 | T.00 |



ORGANICS ANALYSIS DATA SHEET Volatiles by Purge & Trap GC/MS-Method SW8260C Page 2 of 2

Sample ID: LCS-012811 LAB CONTROL SAMPLE

Lab Sample ID: LCS-012811 LIMS ID: 11-1806 Matrix: Water QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032

| | | Spike | LCS | | Spike | LCSD | |
|-----------------------------|--------|-----------|----------|--------|------------|----------|------|
| Analyte | LCS | Added-LCS | Recovery | LCSD | Added-LCSD | Recovery | RPD |
| Acrylonitrile | 8.8 Q | 10.0 | 88.0% | 9.0 Q | 10.0 | 90.0% | 2.28 |
| 1,1-Dichloropropene | 10.0 | 10.0 | 100% | 9.8 | 10.0 | 98.0% | 2.0% |
| Dibromomethane | 10.1 | 10.0 | 101% | 9.7 | 10.0 | 97.0% | 4.0% |
| 1,1,1,2-Tetrachloroethane | 10.9 | 10.0 | 109% | 10.7 | 10.0 | 1078 | 1.9% |
| 1,2-Dibromo-3-chloropropane | 9.9 | 10.0 | 99.0% | 9.9 | 10.0 | 99.0% | 0.0% |
| 1,2,3-Trichloropropane | 10.3 | 10.0 | 103% | 10.5 | 10.0 | 105% | 1.9% |
| trans-1,4-Dichloro-2-butene | 8.2 | 10.0 | 82.0% | 7.9 | 10.0 | 79.0% | 3.7% |
| 1,3,5-Trimethylbenzene | 11.4 | 10.0 | 114% | 11.3 | 10.0 | 113% | 0.9% |
| 1,2,4-Trimethylbenzene | 11.4 | 10.0 | 1148 | 11.2 | 10.0 | 112% | 1.8% |
| Hexachlorobutadiene | 10.0 | 10.0 | 100% | 10.0 | 10.0 | 100% | 0.0% |
| Ethylene Dibromide | 9.5 | 10.0 | 95.0% | 9.3 | 10.0 | 93.0% | 2.1% |
| Bromochloromethane | 9.6 | 10.0 | 96.0% | 9.5 | 10.0 | 95.0% | 1.08 |
| 2,2-Dichloropropane | 10.3 | 10.0 | 103% | 10.2 | 10.0 | 102% | 1.0% |
| 1,3-Dichloropropane | 9.6 | 10.0 | 96.0% | 10.0 | 10.0 | 100% | 4.1% |
| Isopropylbenzene | 11.1 | 10.0 | 111% | 11.0 | 10.0 | 110% | 0.9% |
| n-Propylbenzene | 11.4 | 10.0 | 114% | 11.3 | 10.0 | 113% | 0.9% |
| Bromobenzene | 10.2 | 10.0 | 102% | 9.9 | 10.0 | 99.0% | 3.0% |
| 2-Chlorotoluene | 10.4 | 10.0 | 104% | 10.4 | 10.0 | 104% | 0.0% |
| 4-Chlorotoluene | 10.9 | 10.0 | 109% | 10.7 | 10.0 | 107% | 1.9% |
| tert-Butylbenzene | 11.1 | 10.0 | 111% | 10.9 | 10.0 | 109% | 1.8% |
| sec-Butylbenzene | 11.3 | 10.0 | 113% | 11.2 | 10.0 | 112% | 0.9% |
| 4-Isopropyltoluene | 11.6 Q | 10.0 | 116% | 11.4 Q | | 114% | 1.7% |
| n-Butylbenzene | 11.4 Q | 10.0 | 114% | 11.1 Q | | 111% | 2.7% |
| 1,2,4-Trichlorobenzene | 10.2 | 10.0 | 102% | 10.2 | 10.0 | 102% | 0.0% |
| Naphthalene | 10.3 | 10.0 | 103% | 10.3 | 10.0 | 103% | 0.0% |
| 1,2,3-Trichlorobenzene | 10.2 | 10.0 | 102% | 10.3 | 10.0 | 103% | 1.0% |

Reported in μ g/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

| | LCS | LCSD |
|------------------------|-------|-------|
| d4-1,2-Dichloroethane | 103% | 104% |
| d8-Toluene | 100% | 101% |
| Bromofluorobenzene | 96.9% | 99.78 |
| d4-1,2-Dichlorobenzene | 97.8% | 99.9% |



Sample ID: KSC-DP-17-GW-110127 SAMPLE

Lab Sample ID: SG59A LIMS ID: 11-1806 Matrix: Water Data Release Authorized: Reported: 02/07/11 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | μg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/04/11 | 7440-38-2 | Arsenic | 0.2 | 59.9 | |



Sample ID: KSC-DP-20-GW-110127 SAMPLE

Lab Sample ID: SG59B LIMS ID: 11-1807 Matrix: Water Data Release Authorized Reported: 02/07/11 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | μg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/04/11 | 7440-38-2 | Arsenic | 0.5 | 33.7 | |



Lab Sample ID: SG59C LIMS ID: 11-1808

Sample ID: KSC-DP-19-GW-110127 SAMPLE

QC Report No: SG59-The Boeing Company Project: Striker

| LIMS ID: 11-1808 | Project: Striker |
|------------------------------|-------------------------|
| Matrix: Water | 025195.003.032 |
| Data Release Authorized: 🖓 / | Date Sampled: 01/27/11 |
| Reported: 02/07/11 | Date Received: 01/27/11 |
| | |
| | |

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg∕L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/04/11 | 7440-38-2 | Arsenic | 0.5 | 77.0 | |



Sample ID: KSC-DP-18-GW-110127 SAMPLE

Lab Sample ID: SG59D LIMS ID: 11-1809 Matrix: Water Data Release Authorized: Reported: 02/07/11 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | μg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/04/11 | 7440-38-2 | Arsenic | 0.5 | 115 | |

U-Analyte undetected at given RL RL-Reporting Limit

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Sample ID: KSC-DP-17-S-4-5-110127 SAMPLE

Lab Sample ID: SG59E LIMS ID: 11-1810 Matrix: Soil Data Release Authorized Reported: 02/07/11 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Percent Total Solids: 87.6%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/04/11 | 7440-38-2 | Arsenic | 0.2 | 2.6 | |



Page 1 of 1

Sample ID: KSC-DP-20-S-4.5-5.5-110127 SAMPLE

Lab Sample ID: SG59F LIMS ID: 11-1811 Matrix: Soil Data Release Authorized Reported: 02/07/11 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Percent Total Solids: 89.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q | |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|--|
| 3050B | 01/31/11 | 200.8 | 02/04/11 | 7440-38-2 | Arsenic | 0.2 | 2.6 | | |



Page 1 of 1

Sample ID: KSC-DP-19-S-3.5-4.5-110127 SAMPLE

Lab Sample ID: SG59G LIMS ID: 11-1812 Matrix: Soil Data Release Authorized Reported: 02/07/11 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Percent Total Solids: 88.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/04/11 | 7440-38-2 | Arsenic | 0.2 | 2.3 | |



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Sample ID: KSC-DP-18-S-4-5-110127 SAMPLE

Lab Sample ID: SG59H LIMS ID: 11-1813 Matrix: Soil Data Release Authorized: Reported: 02/07/11 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: 01/27/11 Date Received: 01/27/11

Percent Total Solids: 88.1%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----------|---|
| 3050B | 01/31/11 | 200.8 | 02/04/11 | 7440-38-2 | Arsenic | 0.2 | 1.9 | |



Sample ID: METHOD BLANK

Lab Sample ID: SG59MB LIMS ID: 11-1806 Matrix: Water Data Release Authorized: Reported: 02/07/11 QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | μg/L | Q |
|--------------|--------------|--------------------|------------------|------------|---------|--------|------|---|
| 200.8 | 02/01/11 | 200.8 | 02/04/11 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |



Sample ID: LAB CONTROL

Lab Sample ID: SG59LCSQC Report No: SG59-The Boeing CompanyLIMS ID: 11-1806Project: StrikerMatrix: Water025195.003.032Data Release AuthorizedDate Sampled: NAReported: 02/07/11Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|-----------------------|--------------------|----------------|----------------|---------------|---|
| Arsenic | 200.8 | 25.6 | 25.0 | 102% | |
| Reported in μ g/L | | | | | |

N-Control limit not met Control Limits: 80-120%



Sample ID: METHOD BLANK

QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

Percent Total Solids: NA

Data Release Authorized

Lab Sample ID: SG59MB

LIMS ID: 11-1810

Reported: 02/07/11

Matrix: Soil

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/ | kg-dry | Q |
|--------------|--------------|--------------------|------------------|------------|---------|-----|-----|--------|---|
| 3050B | 01/31/11 | 200.8 | 02/04/11 | 7440-38-2 | Arsenic | 0.2 | · | 0.2 | U |



Page 1 of 1

Lab Sample ID: SG59LCS LIMS ID: 11-1810 Matrix: Soil Data Release Authorized Reported: 02/07/11

Sample ID: LAB CONTROL

QC Report No: SG59-The Boeing Company Project: Striker 025195.003.032 Date Sampled: NA Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

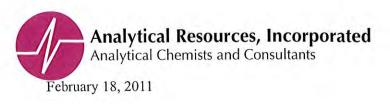
| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---------|--------------------|----------------|----------------|---------------|---|
| Arsenic | 200.8 | 26.3 | 25.0 | 105% | |

Reported in mg/kg-dry

i

N-Control limit not met NA-Not Applicable, Analyte Not Spiked Control Limits: 80-120%

.



Kathryn Hartley Landau Associates 130 Second Avenue South Edmonds, WA 98020

RE: Project: Striker, 025195.003.032 ARI Job: SJ32

Dear Kathryn,

Enclosed, please find the original and revised Chain-of-Custody (COC) records, sample receipt documentation, email documentation, and the final data report for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted nine water samples, ten soil samples, and a trip blank on January 26, 2011 originally under sample delivery group (SDG) SG42. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Forms. Select samples were placed on hold pending further instructions. Per Landau Associates, samples were allowed to settle and sample volume was collected from the clear portion.

The samples were originally analyzed for Total and Dissolved Arsenic, VOCs, NWTPH-Gx, and NWTPH-Dx, as requested and reported under SG42.

On 2/16/11 at the request of Landau Associates, select samples were analyzed for NWTP-Gx outside of the method recommended holding time.

There were no analytical complications noted.

Quality control analysis results are included for your review. An electronic copy of this report and all associated raw data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely, ANALYTICAL RESOURCES, INC

Kelly Bottem

Client Services Manager (206) 695-6211 <u>kellyb@arilabs.com</u> <u>www.arilabs.com</u>

Page 1 of _____

Analytical Resources, Incorporated Analytical Chemists and Consultants

Cooler Receipt Form

| | St. | bor | |
|---|--|---------------------------------------|---------------|
| ARI Client: <u>Landali</u> | Project Name: 🔶 🛛 🛔 | | <u> </u> |
| COC No(s): (NA) | Delivered by: Fed-Ex UPS Co | ourier Hand Delivered Other: | |
| Assigned ARI Job No: 5642 | Tracking No: | | NA |
| Preliminary Examination Phase: | | | |
| Were intact, properly signed and dated custody seals attache | d to the outside of to cooler? | (ES) | NO |
| Were custody papers included with the cooler? | | VES | NO |
| Were custody papers properly filled out (ink, signed, etc.) | | (ES) | NO |
| Temperature of Cooler(s) (*C) (recommended 2.0-6.0 *C for | chemistry) 6050 | | |
| If cooler temperature is out of compliance fill out form 00070F | F , , | Temp Gun ID#: 709 | 41619 |
| Cooler Accepted by: | Date: //2.6/11Tir | me: <u>1650</u> | |
| | ms and attach all shipping document | s | |
| Log-In Phase: | | | |
| When a term analyze blank included in the coolor? | | YES | (NO) |
| Was a temperature blank included in the cooler? What kind of packing material was used? Bubble y | Wrap Wet Ice Gel Packs Baggies Foa | | |
| Was sufficient ice used (if appropriate)? | | NA VES | NO |
| Were all bottles sealed in individual plastic bags? | | YES | NO |
| Did all bottles arrive in good condition (unbroken)? | | YES | NO |
| Were all bottle labels complete and legible? | | Ē | NO |
| Did the number of containers listed on COC match with the r | | (YES) | NO |
| Did all bottle labels and tags agree with custody papers? | | | NO |
| Were all bottles used correct for the requested analyses? | | YES | (NO) |
| Do any of the analyses (bottles) require preservation? (altac | h preservation sheet, excluding VOCs). | na (yes) | NO |
| Were all VOC vials free of air bubbles? | | NA YES | (DA) |
| Was sufficient amount of sample sent in each bottle? | | YES | NO |
| Date VOC Trip Blank was made at ARI | | . na <u>1/2</u> | <u>.o/11</u> |
| Was Sample Split by ARI : (NA) YES Date/Time: | Equipment: | Split by: | |
| - UM | Int. | , 1000 | |
| | Date: <u>12//(</u> Time | · · · · · · · · · · · · · · · · · · · | |
| ** Notify Project Ma | nager of discrepancies or concerns | | |
| | | | 20 |
| Sample ID on Bottle Sample ID on COC KX-N-25B Gw-110126 KSC-DP-25b-Gw- | ···· | Sample ID on C | |
| KS-0-25B Gw-110126 RSC-DP-256-Gw- | -10126 | | |
| | | | |
| | | | <u> </u> |
| Additional Notes, Discrepancies, & Resolutions: | 2- SOBL DECORDER N | ails 4 1-HCL | Dire serviced |
| KSC-DF-23-GW-11012C- sm inc 1012. TB= sm in 2.62 | Vial oppend for a | anolo, KSC-DP | -21-5.1.1.5. |
| TB= Sm in 2:62 | KSC-D4.71-S-3-3-5-1 | U1264 K3C-DX-1 | 21-S-25-3- |
| | 2- SOBI preserved N Vial received Sor 3 KSC-DP. 21-S- 3-35-11 Connet usa HCl Via Direserved with | of for analysis | , should b |
| By: _ [VI _ Date: 1/27/11 | Dieserved with | MOOH. | |
| Smell Air Bubbles Peabubbles' LARGE Air Bubble | | | |
| | Peabubbles → "pb" | | |

0016F 3/2/10 •

Cooler Receipt Form

Large → "lg"

Headspace → "hs"

Revision 014

SG42:00004

added by KEH 1/28/11 added by PER 2/16/4 Seattle/Edmonds (425) 778-0907 Tacoma (253) 926-2493 Date 1/26/2011 Spokane (509) 327-9737 LANDAU Dokane (509) 327-9737 ASSOCIATES OPortland (503) 542-1080 Page / of 2 Chain-of-Custody Record **Testing Parameters** Project Name Striker Project No. 025/95.003.032 Turnaround Time Standard Project Location/Event Kent, WA / Phase 11 Supplemental Accelerated Sampler's Name PRR / SED Project Contact Tim Syverson, Kuthryn Hartley, Joe Flahouth (Breing) Send Results To + Anne Halvorsen No. of Observations/Comments Sample I.D. Date Time Matrix Containers KS(-DP-31-6W-110126 1/26/1 0920 HzO $\not\prec$ X Allow water samples to settle, collect X KSC-DP-32-6W-110126 0955 H_ 0 aliquot from clear portion X 1- 0 KSL- DP-33-GW-110126 1020 X NWTPH-Dx - run acid wash/silica gel cleanup 3 KSC-DP-Z1-GW-110126 H. O х 1/20 45C-DP-31-5-5-6-11-126 0850 X 50.1 run samples standardized to X KSC- DP-32-5-35-45-11014 product 0910 Se. 1551-01-33-57-5-2.5-11016 Analyze for EPH if no specific $\langle \mathcal{I} \rangle$ 0935 Soul product identified · KS(=D1-21-5-0-05-110170 1040 Sort 3 X * J. 1 8 3 VOC/BTEX/VPH (soll): 1201 · 1656-08-21-5-3-35-110126 1045 Soul \mathbf{X} non-preserved KS1-DP-21-5-2.5-3-110120 3 Se. 1 1050 preserved w/methanol 12 84 XX KS1-01-2565-455-11026 1310 50.1 ____ preserved w/sodium bisulfate 1484 ____ Freeze upon receipt 1451-0A-256-5-7-8-110126 1315 50,1 S. Dissolved metal water samples field filtered KSC- NP-24-5-6-7-110126 ¥ 4 1400 × 1556-00-24-5-8-9-110126 2 1405 50.1 Other Archie Singles net 4 miched for Gratysis 656- DV-ZZ-GW-110126 tho X 1515 5 X × H, O 1540 KX-00-23-6W-10170 1430 H, O 5 \checkmark \mathbf{x} 1451-0P-24-6W-10120 1302 H, U 456- NP-256-GW-11012G Special Shipment/Handling or Storage Requirements · 1340 Method of deliver + ARI 100 0n Shipment Received by Relinquisted by Relinquished by Received by Signature Signature Signature symither Printed Name Printed Name Printed Name Printed Name ART Company Company Company Date 1/26/11 Time 150 1/26/11 1650 Date Time Date Time Date Time

| 🗌 Tacoma (2 | Imonds (425) 77 (53) 926-2493 (509) 327-9737 503) 542-1080 | | ain-of-Cı | istody Record | Date <u>//26/2+11</u> Pageof |
|--|---|--|------------------------|--------------------------------------|---|
| Project Name Striker Project Location/Event Kerf Sampler's Name RR / S Project Contact Tim Syverse Send Results To Sample I.D. T B BSC- DP-25- GW- 110126 | <u>ин /fhase</u> ED _, <u>Канчч</u> | I S-ppline <u>n Hartber</u> , ", Anne Hel Time Matrix | Joe Flaherty/ | | Turnaround Time |
| | | | | | X MVTPH-Dx - run acid wash/silica gel cleanup run samples standardized to product Analyze for EPH if no specific product identified VOC/BTEX/VPH (soll): non-preserved preserved w/methanol preserved w/sodium bisulfate Freezo upon receipt Dissolved metal water samples field filtered Dther |
| Special Shipment/Handling or Storage Requirements Relinguished by Signature Printed Name Company Date 1/26/11 Time (CS | Printe | Jennifer Mame ART Sany | Millsop Firme [Loto | Signature Printed Name Company | |

WHITE COPY - Project File

.

YELLOW COPY - Laboratory

Sample ID Cross Reference Report



ARI Job No: SJ32 Client: The Boeing Company Project Event: 025195.003.032 Project Name: Striker

| | Sample ID | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR |
|----|------------------------|---------------|----------------|----------|------------------|----------------|
| 1. | KSC-DP-24-S-8-9-110126 | SJ32A | 11-3378 | Soil | 01/26/11 14:05 | 01/26/11 16:50 |
| | | P | rinted | 02/16/11 | | |

x

Subject: Additional Analysis for Boeing Striker From: Paul Raymaker <praymaker@landauinc.com> Date: Wed, 16 Feb 2011 13:21:07 -0800 To: Kelly Bottem <kellyb@arilabs.com> CC: "Kathryn Hartley" <khartley@landauinc.com>

Kelly-

Attached is a revised COC from the Boeing Striker job. We are requesting sample KSC-DP-24-S-8-9-110126 be analyzed for TPH-G. We are aware that the sample is beyond hold time however we would still like it analyzed. Please let me know if you have any questions. Thank you,

Paul Raymaker " Senior Staff Geologist Landau Associates, Inc.

130 2nd Ave. S, Edmonds, WA 98020 425.778.0907 fax 425.778.6409 direct 425.329.0289

praymaker@landauinc.com " www.landauinc.com

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| | | | Content-Description: | Striker_COC_012 | 511_rev021611.pdf |
|---------|------------|---------------|-----------------------------|-----------------|-------------------|
| Striker | COC 012611 | rev021611.pdf | Content-Type: | application/pdf | • • |

Content-Encoding: base64

ANALYTICAL RESOURCES

ORGANICS ANALYSIS DATA SHEET TPHG by Method NWTPHG Matrix: Soil

Data Release Authorized: M Reported: 02/18/11 QC Report No: SJ32-The Boeing Company Project: Striker Event: 025195.003.032 Date Sampled: 01/26/11 Date Received: 01/26/11

| ARI ID | Client ID | Analysis Date | Basis | Range | Result |
|----------------------|------------------------|------------------|-------|--|------------------------------------|
| MB-021711 11-3378 | Method Blank | 02/17/11 PID2 | Dry | Gasoline HC ID Trifluorotoluene Bromobenzene | < 5.0 U 91.9% 90.5% |
| SJ32A 11-3378 | KSC-DP-24-S-8-9-110126 | 02/17/11 PID2 | Dry | Gasoline HC ID Trifluorotoluene Bromobenzene | 23 GRO 98.5% 96.6% |

Auro Auro Ma

Gasoline values reported in mg/kg (ppm)

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline. GRO: Positive result that does not match an identifiable gasoline pattern.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.



TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: SJ32 Matrix: Soil QC Report No: SJ32-The Boeing Company Project: Striker Event: 025195.003.032

| Client ID | BFB | TFT | BBZ | TOT OUT |
|------------------------|-----|-------|-------|---------|
| MB-021711 | NA | 91.9% | 90.5% | 0 |
| LCS-021711 | NA | 98.3% | 98.5% | 0 |
| LCSD-021711 | NA | 92.0% | 91.5% | 0 |
| KSC-DP-24-S-8-9-110126 | NA | 98.5% | 96.6% | 0 |

| | LCS/MB LIMITS | QC LIMITS |
|----------------------------|---------------|-----------|
| (BFB) = Bromofluorobenzene | (70-130) | (70-130) |
| (TFT) = Trifluorotoluene | (80-120) | (66-123) |
| (BBZ) = Bromobenzene | (80-120) | (62-130) |

Log Number Range: 11-3378 to 11-3378

.

ORGANICS ANALYSIS DATA SHEET TPHG by Method NWTPHG Page 1 of 1



Sample ID: LCS-021711 LAB CONTROL SAMPLE

Lab Sample ID: LCS-021711 LIMS ID: 11-3378 Matrix: Soil Data Release Authorized:

Date Analyzed LCS: 02/17/11 07:03 LCSD: 02/17/11 07:32 Instrument/Analyst LCS: PID2/MH LCSD: PID2/MH QC Report No: SJ32-The Boeing Company Project: Striker Event: 025195.003.032 Date Sampled: NA Date Received: NA

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt LCSD: 100 mg-dry-wt

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|-----------------------------|--------|--------------------|-----------------|------|---------------------|------------------|-------|
| Gasoline Range Hydrocarbons | 47.0 | 50.0 | 94.0% | 42.4 | 50.0 | 84.8% | 10.3% |
| | Report | ted in mg/k | (ppm) | | | | |

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

| | LCS | LCSD |
|------------------|-------|-------|
| Trifluorotoluene | 98.3% | 92.0% |
| Bromobenzene | 98.5% | 91.5% |