August 24, 2012

Mr. Dwayne Arino
JELD-WEN, inc.
P.O. Box 1540
407 Harbor Isles Blvd.
Klamath Falls, OR 97601

Re: DRAFT Phase 2 RI Upland Soil and Groundwater Investigation Summary
Former Nord Door Site, Everett, Washington

Dear Dwayne,

SLR International Corporation has prepared the following summary to present the findings of Phase 2 Remedial Investigation (RI) upland soil and groundwater sampling activities performed at the former Nord Door facility located at 300 West Marine View Drive in Everett, Washington (Site).

Background

The Phase 2 RI upland soil and groundwater sampling activities were performed in general accordance with August 2, 2011 Phase 2 RI Work Plan (Phase 2 RI Work Plan, SLR 2011). The purpose of the Phase 2 RI was to complete characterization of upland, marine, and freshwater sediment impacts on or adjacent to the Site. This letter summarizes the findings of the upland investigation. Findings related to marine and freshwater sediment investigations will be presented under separate cover. The work is being conducted under an Agreed Order with Ecology (Agreed Order No.: DE 5095 dated January 2, 2008).

The initial RI investigation was completed between May and October 2009 in general accordance with the Ecology-approved 2008 Work Plan. On November 20, 2009, JELD-WEN submitted an Initial RI Investigation Data Summary (RI Summary) report to Ecology. This document contained a summary of RI field activities, data results, and identified data gaps that warranted further investigation. Ecology provided written comments to the RI Summary report on May 12, 2010 and requested additional assessment. The Phase 2 RI Work Plan was developed to address Ecology's comments and to provide additional characterization to allow for completion of the RI/FS and draft CAP.

Based on the findings of the initial RI, previous sampling conducted at the Site, and a series of communications with Ecology, the following upland areas were identified as warranting additional characterization:

- Dioxins and furans in the former Woodlife storage and use area;
- Potential for dioxins and furans in soil beneath the pavement in the vicinity of the former burner ash storage area;

- Metals in groundwater at former boring GP-304;
- Metals in groundwater monitoring wells to establish the relationship between total and dissolved metals in groundwater;
- Total petroleum hydrocarbons (TPH) in groundwater monitoring wells MW-1 and MW-5; and,
- Volatile organic compounds (VOCs) in groundwater near the former thinner (toluene) tank.

SCOPE OF WORK

A brief description of the scope of work for the assessment of each area is described below. Attached Figure 1 presents the upland sampling locations.

Former Woodlife Storage and Use Area Dioxins and Furans – Three Geoprobe soil borings (401-P, 402-P, and 403-P) were completed around former boring GP-302 to further characterize the extent of dioxin/furan impacts in the vicinity of the former Woodlife storage and use area. Soil samples were collected from a depth of 2.0 feet below ground surface (bgs) in boring 401-P and at a depth of 3.0 feet bgs in borings 402-P and 403-P. Soil samples were submitted for analysis of dioxins/furans by EPA Method 1613B.

Groundwater was encountered at depths of between 3.5 feet bgs and 4.5 feet bgs in the three borings. One groundwater sample was collected from each boring and held pending the results of the soil analysis. The groundwater sample from the boring with the highest dioxin/furan concentration in soil (403-P) was submitted for laboratory analysis of dioxins/furans. One groundwater sample was also collected from monitoring well MW-6 and submitted for laboratory analysis of dioxins/furans.

Former Burner Area Dioxins and Furans – One Geoprobe soil boring (404-P) was advanced adjacent to the bag fitter housing formerly used to collect burner ash. One soil sample was collected from this boring at a depth of 3 feet bgs and submitted for dioxin/furan analysis. Groundwater was encountered at a depth of 6 feet bgs in the boring. One groundwater sample was collected from the boring and held pending the results of the soil analysis.

Metals in Groundwater at Boring GP-304 – One Geoprobe boring (405-P) was completed adjacent to former boring GP-304 for the collection of a groundwater sample for total and dissolved metals analysis. Groundwater was encountered at a depth of 9.0 feet bgs. As presented in the upland Sampling and Analysis Plan (SAP), the groundwater sample was filtered in the field using a 0.45-µm in-line filter prior to submittal to the laboratory.

Metals in Groundwater Monitoring Wells – Groundwater samples were collected from groundwater monitoring wells MW-1 and MW-6 for analysis of total and dissolved metals. As presented in the upland SAP, the groundwater samples were filtered in the field using a 0.45-µm in-line filter prior to submittal to the laboratory.

TPH in Groundwater Monitoring Wells – Two additional rounds of groundwater samples were collected from groundwater monitoring wells MW-1 and MW-5. The two sampling events were scheduled to coordinate with the predicted high tide and predicted low tide times for the Everett area of Possession Sound. The groundwater samples were submitted for TPH-HCID analysis, with follow-up samples held for analysis of NWTPH-Dx and/or NWTPH-Gx if the HCID analysis showed the presence of these ranges of petroleum hydrocarbons in the samples.

VOCs in Groundwater Near Former Thinner Tank – Groundwater samples collected from Geoprobe borings 401-P and 403-P were submitted for VOC analysis by EPA Method 8260 to provide additional characterization of VOCs identified in groundwater near former boring GP-3.

Soil sampling equipment was decontaminated between each sample location using the procedures described in the SAP. The soil and groundwater samples analyzed for dioxins/furans were submitted to SGS North America Inc. (Ecology laboratory accreditation number C913-11). Groundwater samples analyzed for TPH, VOC, and metals were submitted to Environmental Science Corporation (Ecology laboratory accreditation number C847-11).

Analytical Results Summary

A brief description of the analytical results from each area assessed is provided below. Tables 1 through 5 present a summary of the upland sampling results.

Former Woodlife Storage and Use Area Dioxins and Furans – Soil borings 401-P, 402-P, and 403-P identified a 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) total toxicity equivalence (TEQ) of 22.82 picograms per gram (pg/g), 20.93 pg/g, and 247.22 pg/g, respectively. These concentrations exceed the Site Preliminary Cleanup Level (PCL) of 11 pg/g, from the November 2009 RI Summary report.

As specified in the Work Plan, the groundwater sample from the probe boring with the highest dioxin/furan concentration in soil (403-P) was submitted for dioxins/furans analysis. The groundwater sample could not be centrifuged prior to analysis (as was specified in the Phase 2 RI Work Plan) due to excess sample volume. The 2,3,7,8-TCDD TEQ was 0.117 picograms per liter (pg/L) using a value of zero for non-detections, and was 1.832 pg/L using a value of ½ the method detection limit (MDL) for non-detections. The PCL for dioxins/furans in groundwater is 0.01 pg/L. It should be noted that the groundwater PCLs were set at the detection limit of the analytical laboratory. Further, the analytical laboratory identified dioxins/furans in the method blank with a TEQ of 2.837 pg/L, which is higher than the concentration detected in the actual groundwater sample from boring 403-P. For comparison sake, concentration of dioxins/furans identified groundwater from boring 403-P (using zero for non-detects) were below the MTCA Method B groundwater cleanup level for dioxins/furans (0.58 pg/L) and below the Federal Maximum Contaminant Limit (MCL) drinking water standard (30 pg/L).

The groundwater sample collected from monitoring well MW-6 identified a 2,3,7,8-TCDD TEQ of 0.016 pg/L using zero for non-detections, and 2.43 pg/L using a value of ½ the

MDL for non-detections. The concentrations of dioxins/furans identified in MW-6 were above the PCL of 0.01 pg/L but, using zero for non-detections, were below the MTCA Method B groundwater cleanup level and below the drinking water MCL. Also of note, the 2,3,7,8-TCDD TEQ for the method blank for this sample was 5.7 pg/L, higher than the concentrations identified in the groundwater sample from MW-6.

Former Burner Area Dioxins and Furans – The soil sample collected from boring 404-P identified a 2,3,7,8-TCDD TEQ of 3.27 pg/g, below the PCL of 11 pg/g. Per the Work Plan, since the soil concentration was below the PCL, the groundwater sample from this location was not submitted for analysis.

Metals in Groundwater at Boring GP-304 – The groundwater sample from Geoprobe boring 405-P was submitted for total and dissolved metals analysis. The findings of this analysis identified total metals concentrations to be significantly higher than dissolved metals concentrations for all analytes except selenium. With the exception of arsenic, no exceedances of PCLs were identified in the dissolved metals analysis. Arsenic was identified at concentrations of 7.3 µg/L in the dissolved metals analysis, slightly above the PCL of 4.8 µg/L. The concentrations of dissolved metals identified in boring 405-P were generally consistent with metals concentrations identified throughout the Site as part of the Initial RI investigation.

Metals in Groundwater Monitoring Wells – Groundwater samples from groundwater monitoring wells MW-1 and MW-6 were submitted for analysis of total and dissolved metals. No exceedances of groundwater PCLs for metals were identified in the dissolved metals analysis from either MW-1 or MW-6. The findings of this analysis identified groundwater concentrations to be substantially similar when comparing the total and dissolved metals concentrations collected from the two groundwater monitoring wells. The concentrations of total and dissolved metals identified in groundwater samples from MW-1 and MW-6 were generally consistent with metals concentrations identified in groundwater monitoring wells located throughout the Site as part of the Initial RI investigation.

TPH in Groundwater Monitoring Wells – Two rounds of groundwater samples were collected from groundwater monitoring wells MW-1 and MW-5 (one each from the predicted high tide and predicted low tide), and submitted for laboratory analysis of TPH-HCID, TPH-Gx, and TPH-Dx. No exeedances of PCLs were identified in any of the groundwater samples submitted for TPH analysis.

VOCs in Groundwater Near Former Thinner Tank – Groundwater samples collected from Geoprobe borings 401-P and 403-P identified no VOCs at concentrations above laboratory method detection limits.

Findings

SLR completed the Phase 2 RI in general accordance with the 2011 Phase 2 RI Work Plan. A summary of the findings associated with each of the investigated areas is provided below:

Former Woodlife Storage and Use Area Dioxins and Furans – The soil samples from borings 401-P, 402-P, and 403-P identified concentrations of dioxins/furans above the

PCL of 11 pg/g. The extent of dioxins/furans concentrations in soil above PCLs was not fully delineated by this additional assessment. The northeastern-most of the three samples (403-P) exhibited the highest concentration of dioxins/furans in soil. The source of dioxins/furans at boring 403-P is not known, but could be related to the former Woodlife storage tank.

Groundwater samples from boring 403-P (sample with the highest dioxins/furans concentration in soil) and from groundwater monitoring well MW-6 identified very low concentrations of dioxins/furans in groundwater. The concentrations exceeded PCL of 0.01 pg/L, but were below the MTCA Method B groundwater cleanup levels (when using zero for non-detections). For both samples, the concentrations of dioxins/furans in the laboratory method blanks were higher than the concentrations identified in the actual groundwater samples. Given the very low concentrations of dioxins/furans in groundwater, no additional assessment of dioxins/furans in groundwater is necessary for completing the upland portion of RI/FS report.

Former Burner Area Dioxins and Furans – The soil sample collected from boring 404-P identified dioxins/furans concentrations below PCLs. No additional assessment of dioxins/furans in this area is necessary for completing the RI/FS report.

Metals in Groundwater at Boring GP-304 – The concentrations of dissolved metals identified in boring 405-P were generally consistent with metals concentrations identified throughout the Site as part of the Initial RI investigation and appear to be representative of background conditions. No additional assessment of metals at former boring GP-304 is necessary for completing the RI/FS report.

Metals in Groundwater Monitoring Wells – The concentrations of total and dissolved metals identified in groundwater samples from MW-1 and MW-6 were generally consistent with metals concentrations identified in groundwater monitoring wells located throughout the Site as part of the Initial RI investigation and appear to be representative of background conditions. No additional assessment of metals in groundwater is necessary for completing the RI/FS report.

TPH in Groundwater Monitoring Wells – No exeedances of PCLs for TPH were identified in groundwater samples from MW-1 or MW-5 at either high tide or low tide. No additional assessment of TPH in groundwater at MW-1 or MW-5 is necessary for completing the RI/FS report.

VOCs in Groundwater Near Former Thinner Tank – Groundwater samples collected from Geoprobe borings 401-P and 403-P identified no VOCs at concentrations above laboratory method detection limits. No additional assessment of VOCs in groundwater near the former thinner tank is necessary for completing the RI/FS report.

CONCLUSIONS

The findings of this investigation were sufficient to complete characterization of upland impacts at the Site for completion of the RI/FS and draft CAP in all areas except the former Woodlife Storage and Use Area. Additional assessment of the extent of dioxins/furans impacts to soil in

this area may be needed for completing the RI/FS report. This additional assessment can be completed as part of the RI.

Please feel free to contact us with any questions.

Sincerely,
SLR International Corp

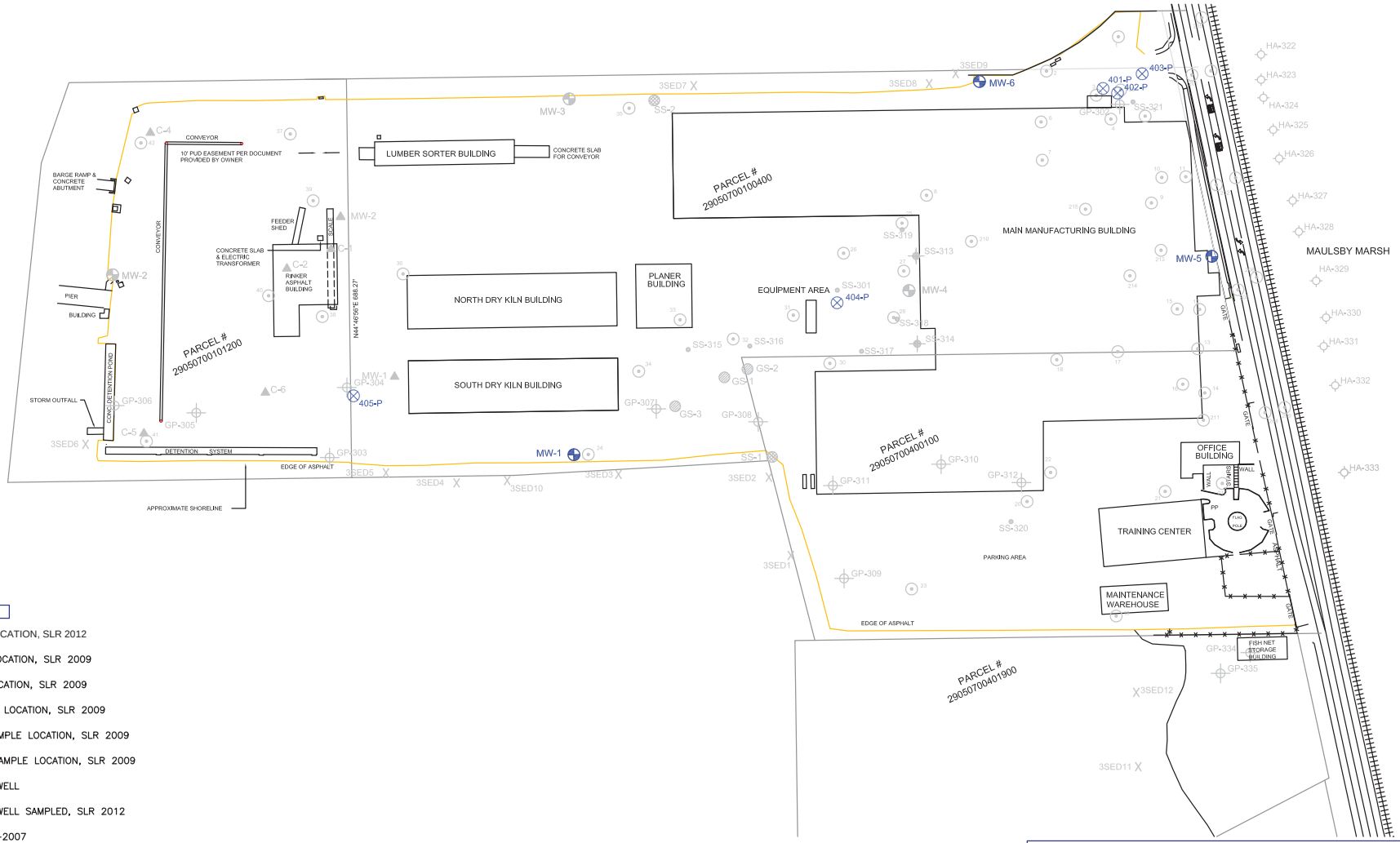
Megan S. Coracci
Senior Scientist

R. Scott Miller
Principal Engineer

Attachments: Figure 1 – Sampling Locations
Tables – Soil Analytical Summary Tables
Attachment – Analytical Summary Reports

Figures

Figure 1 - Sampling Locations



LEGEND

- PHASE II RI UPLAND LOCATION, SLR 2012
- SEDIMENT SAMPLING LOCATION, SLR 2009
- GEOPROBE SAMPLE LOCATION, SLR 2009
- SURFACE SOIL SAMPLE LOCATION, SLR 2009
- BNSF HAND AUGER SAMPLE LOCATION, SLR 2009
- NEAR SURFACE SOIL SAMPLE LOCATION, SLR 2009
- EXISTING MONITORING WELL
- EXISTING MONITORING WELL SAMPLED, SLR 2012
- GEOPROBE, SLR 2006–2007
- SEDIMENT SAMPLE, PARAMETRIX 1991
- SURFACE SOIL SAMPLES, PARAMETRIX 1991
- TEST PITS, SLR 2007
- SOIL AND GROUNDWATER SAMPLES, RZA AGRA 1994

NOTES

THE BUILDINGS, SURFACE UTILITIES, EDGE OF PAVEMENT, AND APPROXIMATE SHORELINE SHOWN ON THIS MAP ARE BASED ON A 2006 SURVEY PERFORMED BY WH PACIFIC.

0 175 350 525'

JELD-WEN SITE
300 WEST MARINE VIEW DRIVE
EVERETT, WASHINGTON

Report: PHASE 2 RI UPLAND SOIL AND GROUNDWATER INVESTIGATION SUMMARY

Drawing: FIGURE 1 - INITIAL PHASE 2 RI DATA SUMMARY

Date	July 30, 2012	Scale	AS SHOWN
File Name	108.00228.00026-4-3	Project No.	008.00228.00026

Fig. No. 1

Last Saved: Monday, August 20, 2012 12:20:47 PM by jjohnson Drawing path: N:\Portland\Figures\JELD-WEN\JELD-WEN NordDoor\PHASE 2\108.00228.00026-4.dwg

Tables

Table 1: Soil - Dioxins/Furans

Table 2: Groundwater – Dioxins/Furans

Table 3: Groundwater – Metals

Table 4: Groundwater – Total Petroleum Hydrocarbons

Table 5: Groundwater – Volatile Organic Compouns

Table 1
Soil Analytical Summary Table
Dioxins and Furans
JELD-WEN Nord Door
Everett, WA

Sample Name	Preliminary Cleanup Level [A] (pg/g)	401-P				402-P				403-P				404-P			
Sampling Date		5/17/2012				5/17/2012				5/17/2012				5/17/2012			
Parameter		Value	TEF	TEQ (DL) = 0	TEQ (DL) = 0.5	Value	TEF	TEQ (DL) = 0	TEQ (DL) = 0.5	Value	TEF	TEQ(DL) = 0	TEQ(DL) = .5	Value	TEF	TEQ(DL) = 0	TEQ(DL) = .5
DIOXINS AND FURANS [B] (pg/g)																	
2,3,7,8-Tetra CDD [C]	--	**0.228** [J]	1.00	0.228	0.228	**2.82**	1.00	2.82	2.82	**1.61**	1.00	1.61	1.61	<.216	1.00	0	0.108
1,2,3,7,8-Penta CDD	--	**1.15** [J]	1.00	1.15	1.15	**7.36**	1.00	7.36	7.36	**13.6**	1.00	13.6	13.6	**0.674** [J]	1.00	0.674	0.674
1,2,3,4,7,8-Hexa CDD	--	**2.48**	0.100	0.248	0.248	**7.96**	0.100	0.796	0.796	**57.1**	0.100	5.71	5.71	**0.694** [J]	0.100	0.0694	0.0694
1,2,3,6,7,8-Hexa CDD	--	**34.5**	0.100	3.45	3.45	**18.8**	0.100	1.88	1.88	**377**	0.100	37.7	37.7	**2.9**	0.100	0.29	0.29
1,2,3,7,8,9-Hexa CDD	--	**7.5**	0.100	0.75	0.75	**12.8**	0.100	1.28	1.28	**87.7**	0.100	8.77	8.77	**1.28** [J]	0.100	0.128	0.128
1,2,3,4,6,7,8-Hepta CDD	--	**792**	0.0100	7.92	7.92	**198**	0.0100	1.98	1.98	**9,600** [E]	0.0100	96	96	**74**	0.0100	0.74	0.74
Octa CDD	--	**7,710** [E]	0.000300	2.313	2.313	**1,580**	0.000300	0.474	0.474	**105,000** [E]	0.000300	31.5	31.5	**591**	0.000300	0.1773	0.1773
Total Tetra CDD	--	**2.35**	--	--	--	**178**	--	--	--	**128**	--	--	--	**6.86**	--	--	--
Total Penta CDD	--	**8.49**	--	--	--	**216**	--	--	--	**374**	--	--	--	**10**	--	--	--
Total Hexa CDD	--	**137**	--	--	--	**215**	--	--	--	**1,810**	--	--	--	**15.7**	--	--	--
Total Hepta CDD	--	**1,390**	--	--	--	**345**	--	--	--	**16,200**	--	--	--	**152**	--	--	--
2,3,7,8-Tetra CDF [D]	--	**0.707**	0.100	0.0707	0.0707	**5.47**	0.100	0.547	0.547	**3.37**	0.100	0.337	0.337	**1.99**	0.100	0.199	0.199
1,2,3,7,8-Penta CDF	--	**2.57**	0.0300	0.0771	0.0771	**3.78**	0.0300	0.1134	0.1134	**10.2**	0.0300	0.306	0.306	**0.827** [J]	0.0300	0.02481	0.02481
2,3,4,7,8-Penta CDF	--	**6.2**	0.300	1.86	1.86	**5.7**	0.300	1.71	1.71	**21.9**	0.300	6.57	6.57	**0.933** [J]	0.300	0.280	0.280
1,2,3,4,7,8-Hexa CDF	--	**12.20**	0.100	1.22	1.22	**5.18** [Q]	0.100	0.518	0.518	**74.3**	0.100	7.43	7.43	**1.43** [J]	0.100	0.143	0.143
1,2,3,6,7,8-Hexa CDF	--	**4.66**	0.100	0.466	0.466	**4.46**	0.100	0.446	0.446	**55.4**	0.100	5.54	5.54	**0.821** [J]	0.100	0.0821	0.0821
2,3,4,6,7,8-Hexa CDF	--	**7.4**	0.100	0.74	0.74	**3.78**	0.100	0.378	0.378	**75.1**	0.100	7.51	7.51	**1.05** [J]	0.100	0.105	0.105
1,2,3,7,8,9-Hexa CDF	--	**5.71**	0.100	0.571	0.571	**1.71** [J]	0.100	0.171	0.171	<1.43	0.100	0	0.0715	<.348	0.100	0	0.0174
1,2,3,4,6,7,8-Hepta CDF	--	**154**	0.0100	1.54	1.54	**38.3**	0.0100	0.383	0.383	**2,110**	0.0100	21.1	21.1	**19.2**	0.0100	0.192	0.192
1,2,3,4,7,8,9-Hepta CDF	--	**8.88**	0.0100	0.0888	0.0888	**3.04** [J]	0.0100	0.0304	0.0304	**129**	0.0100	1.29	1.29	**1.75** [J]	0.0100	0.0175	0.0175
Octa CDF	--	**435**	0.000300	0.13	0.1305	**133**	0.000300	0.0399	0.0399	**7,260** [E]	0.000300	2.178	2.178	**61**	0.000300	0.0183	0.0183
Total Tetra CDF	--	**4.66**	--	--	--	**111**	--	--	--	**106**	--	--	--	**15.5**	--	--	--
Total Penta CDF	--	**76.8**	--	--	--	**62.4**	--	--	--	**624**	--	--	--	**0.933**	--	--	--
Total Hexa CDF	--	**343**	--	--	--	**71.1**	--	--	--	**2,860**	--	--	--	**20.3**	--	--	--
Total Hepta CDF	--	**549**	--	--	--	**106**	--	--	--	**7,960**	--	--	--	**61.8**	--	--	--
TOTAL TOXIC EQUIVALENCY [E]	**11**	--	--	**22.82**	**22.82**	--	--	**20.93**	**20.93**	--	--	**247.15**	**247.22**	--	--	**3.14**	**3.27**

Shading indicates detected concentration greater than Preliminary Cleanup Level (PCL)
All units in picograms per gram (pg/g)
BOLD indicates detected above the laboratory detection limit
Value - Laboratory detected value in pg/g
TEF - Toxic Equivalency Factor from the WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
TEQ - Toxic Equivalency Quotient is Laboratory Value * TEF
TEQ (DL) = 0 - TEQ with value of 0 given for detection limit
TEQ (DL) = 0.5 - TEQ with value of 1/2 detection limit
A - Soil PCL as provided in the Initial RI Investigation Data Summary Report, dated November 20, 2009
B - Dioxins and furans analyzed by EPA Method 1613B
C - CDD = Chloro Dibenzo-p-Dioxin
D - CDF = Chloro Dibenzo-p-Furan.
E - Total Toxic Equivalency = The sum of Toxic Equivalent Quotients for the congeners tested.

Laboratory Qualifiers
J - (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
E - Results over calibration range
Q - Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s).

Table 2
Groundwater Analytical Summary Table
Dioxins and Furans
JELD-WEN Nord Door
Everett, WA

Sample Name	Preliminary Cleanup Level [A] (pg/L)	MW-6-GW				403-P-GW			
Sampling Date		5/24/2012				5/17/2009			
Parameter		Value	TEF	TEQ (DL) = 0	TEQ (DL) = 0.5	Value	TEF	TEQ (DL) = 0	TEQ (DL) = 0.5
DIOXINS AND FURANS [B] (pg/L)									
2,3,7,8-Tetra CDD [C]	--	< 1.85	1.00	0	0.925	< 1.85	1.00	0	0.925
1,2,3,7,8-Penta CDD	--	< 1.35	1.00	0	0.675	< 0.765	1.00	0	0.3825
1,2,3,4,7,8-Hexa CDD	--	< 1.82	0.100	0	0.091	< 1.04	0.100	0	0.052
1,2,3,6,7,8-Hexa CDD	--	< 1.8	0.100	0	0.09	< 1.02	0.100	0	0.051
1,2,3,7,8,9-Hexa CDD	--	< 1.8	0.100	0	0.09	< 1.08	0.100	0	0.054
1,2,3,4,6,7,8-Hepta CDD	--	< 3.43	0.0100	0	0.01715	**7.08 J**	0.0100	0.0708	0.0708
Octa CDD	--	**54.2 J**	0.000300	0.01626	0.01626	**63.4 J**	0.000300	0.01902	0.01902
Total Tetra CDD	--	< 1.85	--	--	--	**7.24 J**	--	--	--
Total Penta CDD	--	< 1.35	--	--	--	**5.42 J**	--	--	--
Total Hexa CDD	--	**6.62 J**	--	--	--	**8.47 J**	--	--	--
Total Hepta CDD	--	< 3.43	--	--	--	**17.2 J**	--	--	--
2,3,7,8-Tetra CDF [D]	--	< 1.49	0.100	0	0.0745	< 0.744	0.100	0	0.0372
1,2,3,7,8-Penta CDF	--	< 1.95	0.0300	0	0.02925	< 0.446	0.0300	0	0.00669
2,3,4,7,8-Penta CDF	--	< 1.14	0.300	0	0.171	< 0.416	0.300	0	0.0624
1,2,3,4,7,8-Hexa CDF	--	< 1.07	0.100	0	0.0535	< 0.63	0.100	0	0.03145
1,2,3,6,7,8-Hexa CDF	--	< 0.939	0.100	0	0.04695	< 0.6	0.100	0	0.03
2,3,4,6,7,8-Hexa CDF	--	< 1.02	0.100	0	0.051	< 0.621	0.100	0	0.03105
1,2,3,7,8,9-Hexa CDF	--	< 1.68	0.100	0	0.084	< 0.949	0.100	0	0.04745
1,2,3,4,6,7,8-Hepta CDF	--	< 1.95	0.0100	0	0.00975	**2.47 J**	0.0100	0.0247	0.0247
1,2,3,4,7,8,9-Hepta CDF	--	< 3.29	0.0100	0	0.01645	< 0.945	0.0100	0	0.004725
Octa CDF	--	< 4.39	0.000300	0	0.0006585	**7.79 J**	0.000300	0.002337	0.002337
Total Tetra CDF	--	< 1.49	--	--	--	< 0.744	--	--	--
Total Penta CDF	--	< 1.95	--	--	--	< 0.446	--	--	--
Total Hexa CDF	--	< 1.68	--	--	--	< 0.949	--	--	--
Total Hepta CDF	--	**3.49**	--	--	--	**7.42**	--	--	--
TOTAL TOXIC EQUIVALENCY [E]	0.010	--	--	**0.016**	**2.441**	--	--	**0.117**	**1.832**

Notes:

Shading indicates detected concentration greater than Preliminary Cleanup Level (PCL)

All units in picograms per liter (pg/L)

Value - Laboratory detected value in pg/L

TEF - Toxic Equivalency Factor from the WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

TEQ - Toxic Equivalency Quotient is Laboratory Value * TEF

TEQ (DL) = 0 - TEQ with value of 0 given for detection limit

TEQ (DL) = 0.5 - TEQ with value of 1/2 detection limit

A - Groundwater PCL as provided in the Initial RI Investigation Data Summary Report, dated November 20, 2009

B - Dioxins and furans analyzed by EPA Method 1613B

C - CDD = Chloro Dibenzo-p-Dioxin

D - CDF = Chloro Dibenzo-p-Furan.

E - Total Toxic Equivalency = The sum of Toxic Equivalent Quotients for the congeners tested.

Laboratory Qualifiers

J - (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

Table 3
Groundwater Analytical Summary Table
Metals
JELD-WEN Site, Former Nord Door
Everett, WA

Analyte	Preliminary Cleanup Levels [A] (µg/L)	MW-1-GW	MW-1-GW (dissolved)	MW-6-GW	MW-6-GW (dissolved)	405P-GW	405P-GW (dissolved)
Metals [B]							
Antimony	6.4	<0.21	<0.21	**0.47** J	**0.87** J	**1.7**	<1.0
Arsenic	4.8	**10**	**2.9**	**4.8**	**4.5**	**38**	**7.3**
Beryllium	270	<0.12	<0.12	<0.12	<0.12	**0.53** J	<1.0
Cadmium	8	<0.16	<0.16	<0.16	<0.16	**1.6**	<0.50
Chromium [C]	48	**5.1**	<0.54	**1.6** J	**1.3** J	**290**	<2.0
Copper	590	**0.56** J	**0.56** J	**3**	**3.9**	**300**	**0.65** J
Lead	15	**0.32** J	<0.24	<0.24	<0.24	**61**	<1.0
Nickel	320	**2.9**	**3.2**	**2**	**2.3**	**440**	**11**
Selenium	80	**2.2**	<0.38	**0.63** J	<0.38	**2** J	**8.6**
Silver	80	<0.31	<0.31	<0.31	<0.31	**0.75** J	<1.0
Thallium	1	<0.19	<0.19	<0.19	<0.19	**0.19** J	<1.0
Zinc	4,800	**2.6**	**2.6**	<2.6	<2.6	**240**	<10
Mercury	0.2	<0.015	**0.02** J	<0.020 J	<0.020 J	<0.20	<0.20

Notes:

Shading indicates detected concentration greater than Preliminary Cleanup Level (PCL)

All units in micrograms per liter (µg/L)

<0.21 indicates detected below the detection limit of 0.21 µg/L

BOLD indicates detected above the laboratory method detection limit

A - Groundwater PCL as provided in the Initial RI Investigation Data Summary Report, dated November 20, 2009

B - Metals per EPA Method 6020, Mercury per EPA Method 7470A

C - Chromium VI

Laboratory Qualifiers

J - (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

Table 4
Groundwater Analytical Summary Table
TPH - High Tide vs Low Tide
JELD-WEN Site, Former Nord Door
Everett, WA

Analyte	Preliminary Cleanup Levels [A] (µg/L)	MW-1-GW (Low Tide)	MW-1-GW (High Tide)	MW-5-GW (Low Tide)	MW-5-GW (High Tide)
TPH-HCID [B]					
Gasoline	--	**56** J	**37** J	**43** J	**34** J
Mineral Spirits	--	ND	ND	ND	ND
Kerosene	--	ND	ND	ND	ND
Diesel	--	**99** J	**120**	**140**	**130**
#6 Fuel Oil	--	ND	ND	ND	ND
Hydraulic Fluid	--	ND	ND	ND	ND
Motor Oil	--	ND	**290** J	ND	ND
Gasoline Range Organics [B]	1,000 / 800 [D]	**35** J	<33	**120**	**150**
Diesel Range Organics [C]	500	**290**	**100**	**470**	**290**
Residual Range Organics [C]	500	**210** J	**170** J	**290**	**190**

Notes:

Shading indicates detected concentration greater than Preliminary Cleanup Level (PCL)

All values in micrograms per liter (µg/L)

ND = Not detected

<33 indicates not detected above the laboratory method detection limit of 33 ug/L

BOLD indicates detected above the laboratory detection limit

A - Groundwater Preliminary Cleanup Level (PCL) as provided in the Initial RI Investigation Data Summary Report, dated November 20, 2009

B - TPH-Hydrocarbon Identification (HCID) per NWTPH-HCID Method

C - Gasoline Range Organics per NWTPH-Gx Method

D- Diesel Range Organics and Residual Range Organics per NWTPH-Dx Method

Laboratory Qualifiers

J - (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration

Table 5
Groundwater Analytical Summary Table
VOCs
JELD-WEN Site, Former Nord Door
Everett, WA

Analyte	Preliminary Cleanup Levels [A] (µg/L)	401P-GW	403P-GW
Volatile Organic Compounds (VOCs) [B]			
acetone	800	<25	<25
benzene	1.2	<0.50	<0.50
bromochloromethane	0.5	<0.50	<0.50
bromodichloromethane	0.5	<0.50	<0.50
bromoform	4.3	<0.50	<0.50
bromomethane	47	<0.50	<0.50
butanone;2- (MEK)	4,800	<2.5	<2.5
carbon disulfide	800	<0.50	<0.50
carbon tetrachloride	0.5	<0.50 J3	<0.50 J3
chlorobenzene	130	<0.50	<0.50
chloroethane	15	<0.50	<0.50
chloroform	5.7	<0.50	<0.50
chloromethane	130	<0.50	<0.50
cyclohexane	1	<1.0	<1.0
dibromo-3-chloropropane;1,2-	1	<1.0	<1.0
dibromochloromethane	0.5	<0.50	<0.50
dibromoethane; 1,2-	0.5	<0.50	<0.50
dichlorobenzene; 1,2-	420	<0.50	<0.50
dichlorobenzene; 1,3-	320	<0.50	<0.50
dichlorobenzene; 1,4-	4.9	<0.50	<0.50
dichlorodifluoromethane	1,600	<0.50 J4, J3	<0.50 J4, J3
dichloroethane;1,1-	800	<0.50	<0.50
dichloroethane;1,2-	1	<0.50	<0.50
dichloroethylene;1,1-	1	<0.50 J3	<0.50 J3
dichloroethylene;1,2-,cis	80	<0.50	<0.50
dichloroethylene;1,2-,trans	10,000	<0.50	<0.50
dichloropropane;1,2-	1	<0.50	<0.50
dichloropropene;1,3-,cis	0.5	<0.50	<0.50
dichloropropene;1,3-,trans	0.5	<0.50	<0.50
dioxane;1,4-	100	<100	<100
ethylbenzene	530	<0.50	<0.50
hexanone-2	2.5	<2.5	<2.5
isopropylbenzene	800	<0.50	<0.50
methyl acetate	8,000	<20	<20
methyl-2-pentanone; 4- (MIK)	640	<2.5	<2.5
methyl tert-butyl ether	20	<0.50	<0.50
n-propylbenzene	--	<0.50	<0.50
methylene chloride	4.6	<2.5	<2.5
methylcyclohexane	1	<1.0	<1.0
styrene	1.5	<0.50	<0.50
tetrachloroethane;1,1,2,2-	0.5	<0.50	<0.50
tetrachloroethylene	0.5	<0.50	<0.50
toluene	1,300	<0.50	<0.50
trichloro-1,2,2-trifluoroethane;1,1,2-	240,000	<0.50 J3	<0.50 J3
trichlorobenzene; 1,2,3-	0.5	<0.50	<0.50
trichlorobenzene; 1,2,4-	35	<0.50	<0.50
trichloroethane; 1,1,1-	420,000	<0.50	<0.50
trichloroethane; 1,1,2-	1	<0.50	<0.50
trichloroethylene	1.5	<0.50	<0.50
trichlorofluoromethane	2,400	<0.50 J3	<0.50 J3
vinyl chloride	0.2	<0.50 J3	<0.50 J3
xylenes (total)	1,000	<1.5	<1.5

Notes:

Shading indicates detected concentration greater than Preliminary Cleanup Level (PCL)

Gray Shading denotes method reporting limit above the PCLs

All values in micrograms per liter (µg/L)

<25 indicates not detected above the laboratory reporting limit of 25 ug/L

A - Groundwater PCLs as provided in the Initial RI Investigation Data Summary Report, dated November

B - VOCs per EPA 8260 Method

Laboratory Qualifiers

J3 - The associated batch QC was outside the established quality control range for precision

J4 - The associated batch QC was outside the established quality control range for accuracy

Appendix 1

Laboratory Analytical Reports

Laboratory Report of Analysis

To: Chris Kramer
SLR International
1800 Blankenship Road
Suite 440
West Linn, OR 97068

Report Number: **31201549**

Client Project: **Nord Door**

Dear Chris Kramer,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Amy J. Boehm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Amy J. Boehm Date
Project Manager
amy.boehm@sgs.com

Print Date: 07/13/2012 N.C. Certification # 481

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
401P-GW	31201549001	05/17/2012 11:23	05/18/2012 10:00	Water
402P-GW	31201549002	05/17/2012 12:22	05/18/2012 10:00	Water
403P-GW	31201549003	05/17/2012 10:30	05/18/2012 10:00	Water
404P-GW	31201549004	05/17/2012 13:26	05/18/2012 10:00	Water
401P	31201549005	05/17/2012 10:55	05/18/2012 10:00	Soil-Solid as dry weight
402P	31201549006	05/17/2012 11:55	05/18/2012 10:00	Soil-Solid as dry weight
403P	31201549007	05/17/2012 09:55	05/18/2012 10:00	Soil-Solid as dry weight
404P	31201549008	05/17/2012 13:05	05/18/2012 10:00	Soil-Solid as dry weight

Case Narrative

401P

E - Results over Calibration Range

Sample has low OCDD extraction standard recoveries due to matrix effects. Sample EDL's are good no adverse impact to data. OK to use - HL 7/13/12

402P

Q - Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)

403P

E - Results over Calibration Range

Q - Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)

Sample has low extraction standard recoveries due to matrix effects. Sample EDL's are good no adverse impact to data. OK to use - HL 7/13/12

Results of **401P**

Client Sample ID: **401P**
Client Project ID: **Nord Door**
Lab Sample ID: 31201549005-A
Lab Project ID: 31201549

Collection Date: 05/17/2012 10:55
Received Date: 05/18/2012 10:00
Matrix: Soil-Solid as dry weight
Solids (%): 96.10

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	**0.228**		J	0.134	0.491	pg/g	29.69	0.73
1,2,3,7,8-PeCDD	**1.15**		J	0.0750	2.46	pg/g	33.27	1.73
1,2,3,4,7,8-HxCDD		2.48		0.596	2.46	pg/g	35.33	0.76*
1,2,3,6,7,8-HxCDD	**34.5**			0.546	2.46	pg/g	35.40	1.27
1,2,3,7,8,9-HxCDD	**7.50**			0.571	2.46	pg/g	35.59	1.20
1,2,3,4,6,7,8-HpCDD	**792**			1.28	2.46	pg/g	37.87	1.01
OCDD	**7710**		E	1.93	4.91	pg/g	40.88	0.90
2,3,7,8-TCDF	**0.625**			0.0990	0.491	pg/g	28.75	0.66
2,3,7,8-TCDF [confirm]		0.707		0.707	0.707	pg/g	21.77	0.96*
1,2,3,7,8-PeCDF	**2.57**			0.0833	2.46	pg/g	32.57	1.76
2,3,4,7,8-PeCDF	**6.20**			0.0856	2.46	pg/g	33.11	1.48
1,2,3,4,7,8-HxCDF	**12.2**			0.104	2.46	pg/g	34.79	1.36
1,2,3,6,7,8-HxCDF	**4.66**			0.103	2.46	pg/g	34.85	1.29
2,3,4,6,7,8-HxCDF	**7.40**			0.141	2.46	pg/g	35.23	1.12
1,2,3,7,8,9-HxCDF		5.71		0.215	2.46	pg/g	35.83	1.54*
1,2,3,4,6,7,8-HpCDF	**154**			0.743	2.46	pg/g	36.98	1.04
1,2,3,4,7,8,9-HpCDF		8.88		1.19	2.46	pg/g	38.31	1.38*
OCDF	**435**			1.06	4.91	pg/g	41.06	0.91
Total TCDD	**2.35**	5.57		0.134	0.491	pg/g		
Total TCDF	**4.66**	6.97		0.0990	0.491	pg/g		
Total PeCDD	**8.49**	12.1		0.0750	2.46	pg/g		
Total PeCDF	**76.8**	77.3		0.0856	2.46	pg/g		
Total HxCDD	**137**	141		0.596	2.46	pg/g		
Total HxCDF	**343**	349		0.215	2.46	pg/g		
Total HpCDD	**1390**			1.28	2.46	pg/g		
Total HpCDF	**549**	558		1.19	2.46	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	21.8	21.9	22.0
WHO-2005 TEQ w/EMPC	pg/g	22.8	22.8	22.8

Print Date: 07/13/2012

N.C. Certification # 481

Results of **401P**

Client Sample ID: **401P**
Client Project ID: **Nord Door**
Lab Sample ID: 31201549005-A
Lab Project ID: 31201549

Collection Date: 05/17/2012 10:55
Received Date: 05/18/2012 10:00
Matrix: Soil-Solid as dry weight
Solids (%): 96.10

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	66.0				25.0-164	%		
13C-12378-PeCDD	40.0				25.0-181	%		
13C-123478-HxCDD		49.0			32.0-141	%		
13C-123678-HxCDD	52.0				28.0-130	%		
13C-1234678-HpCDD	34.0				23.0-140	%		
13C-OCDD	15.0*				17.0-157	%		
13C-2378-TCDF	62.0				24.0-169	%		
13C-12378-PeCDF	44.0				24.0-185	%		
13C-23478-PeCDF	41.0				21.0-178	%		
13C-123478-HxCDF	55.0				26.0-152	%		
13C-123678-HxCDF	59.0				26.0-123	%		
13C-234678-HxCDF	46.0				29.0-147	%		
13C-123789-HxCDF	39.0				28.0-136	%		
13C-1234678-HpCDF	39.0				28.0-143	%		
13C-1234789-HpCDF		29.0			26.0-138	%		
37Cl-2378-TCDD	72.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1748**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JLJ**
Analytical Date/Time: **07/07/2012 16:04**
Dilution: **1**

Prep Batch: **HXX1625**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **06/06/2012 17:36**
Prep Initial Wt./Vol.: **10.6 g**
Prep Extract Vol: **20 uL**

Print Date: 07/13/2012

N.C. Certification # 481

Results of **402P**

Client Sample ID: **402P**
Client Project ID: **Nord Door**
Lab Sample ID: 31201549006-A
Lab Project ID: 31201549

Collection Date: 05/17/2012 11:55
Received Date: 05/18/2012 10:00
Matrix: Soil-Solid as dry weight
Solids (%): 70.00

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	**2.82**			0.266	0.687	pg/g	25.99	0.68
1,2,3,7,8-PeCDD	**7.36**			0.680	3.44	pg/g	32.26	1.62
1,2,3,4,7,8-HxCDD	**7.96**			0.650	3.44	pg/g	34.50	1.36
1,2,3,6,7,8-HxCDD	**18.8**			0.709	3.44	pg/g	34.56	1.33
1,2,3,7,8,9-HxCDD	**12.8**			0.679	3.44	pg/g	34.72	1.31
1,2,3,4,6,7,8-HpCDD	**198**			0.807	3.44	pg/g	36.87	1.04
OCDD	**1580**			1.09	6.87	pg/g	39.69	0.90
2,3,7,8-TCDF	**6.62**			0.322	0.687	pg/g	25.09	0.78
2,3,7,8-TCDF [confirm]	**5.47**			1.04	1.04	pg/g	21.81	0.88
1,2,3,7,8-PeCDF	**3.78**			0.636	3.44	pg/g	30.45	1.53
2,3,4,7,8-PeCDF	**5.70**			0.476	3.44	pg/g	31.95	1.60
1,2,3,4,7,8-HxCDF	**5.18**		Q	0.946	3.44	pg/g	33.94	1.14
1,2,3,6,7,8-HxCDF	**4.46**			0.613	3.44	pg/g	34.02	1.06
2,3,4,6,7,8-HxCDF	**3.78**			0.609	3.44	pg/g	34.40	1.37
1,2,3,7,8,9-HxCDF		1.71	J	0.975	3.44	pg/g	34.91	1.04*
1,2,3,4,6,7,8-HpCDF	**38.3**			0.349	3.44	pg/g	35.99	0.98
1,2,3,4,7,8,9-HpCDF		3.04	J	0.569	3.44	pg/g	37.28	0.61*
OCDF	**133**			0.765	6.87	pg/g	39.85	0.91
Total TCDD	**178**			0.266	0.687	pg/g		
Total TCDF	**111**	116	Q	0.322	0.687	pg/g		
Total PeCDD	**216**	218		0.680	3.44	pg/g		
Total PeCDF	**62.4**	64.8	Q	0.636	3.44	pg/g		
Total HxCDD	**215**		Q	0.709	3.44	pg/g		
Total HxCDF	**71.1**	72.8	Q	0.975	3.44	pg/g		
Total HpCDD	**345**			0.807	3.44	pg/g		
Total HpCDF	**106**	111		0.569	3.44	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	20.7	20.8	20.8
WHO-2005 TEQ w/EMPC	pg/g	20.9	20.9	20.9

Print Date: 07/13/2012

N.C. Certification # 481

Results of **402P**

Client Sample ID: **402P**
Client Project ID: **Nord Door**
Lab Sample ID: 31201549006-A
Lab Project ID: 31201549

Collection Date: 05/17/2012 11:55
Received Date: 05/18/2012 10:00
Matrix: Soil-Solid as dry weight
Solids (%): 70.00

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	64.0				25.0-164	%		
13C-12378-PeCDD	56.0				25.0-181	%		
13C-123478-HxCDD	55.0				32.0-141	%		
13C-123678-HxCDD	56.0				28.0-130	%		
13C-1234678-HpCDD	58.0				23.0-140	%		
13C-OCDD	37.0				17.0-157	%		
13C-2378-TCDF	64.0				24.0-169	%		
13C-12378-PeCDF	56.0				24.0-185	%		
13C-23478-PeCDF	55.0				21.0-178	%		
13C-123478-HxCDF	37.0		Q		26.0-152	%		
13C-123678-HxCDF	61.0				26.0-123	%		
13C-234678-HxCDF	61.0				29.0-147	%		
13C-123789-HxCDF	47.0				28.0-136	%		
13C-1234678-HpCDF	60.0				28.0-143	%		
13C-1234789-HpCDF	53.0				26.0-138	%		
37Cl-2378-TCDD	74.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1748**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JLJ**
Analytical Date/Time: **07/03/2012 21:35**
Dilution: **1**

Prep Batch: **HXX1625**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **06/06/2012 17:36**
Prep Initial Wt./Vol.: **10.4 g**
Prep Extract Vol: **20 uL**

Print Date: 07/13/2012

N.C. Certification # 481

Results of **403P**

Client Sample ID: **403P**
Client Project ID: **Nord Door**
Lab Sample ID: 31201549007-A
Lab Project ID: 31201549

Collection Date: 05/17/2012 09:55
Received Date: 05/18/2012 10:00
Matrix: Soil-Solid as dry weight
Solids (%): 85.20

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	**1.61**			0.317	0.540	pg/g	29.69	0.70
1,2,3,7,8-PeCDD	**13.6**			1.73	2.70	pg/g	33.23	1.53
1,2,3,4,7,8-HxCDD	**57.1**			0.928	2.70	pg/g	35.25	1.18
1,2,3,6,7,8-HxCDD	**377**			1.02	2.70	pg/g	35.32	1.26
1,2,3,7,8,9-HxCDD	**87.7**			0.975	2.70	pg/g	35.50	1.25
1,2,3,4,6,7,8-HpCDD	**9600**		E	2.56	2.70	pg/g	37.69	1.04
OCDD	**105000**		E	2.67	5.40	pg/g	40.60	0.89
2,3,7,8-TCDF	**3.97**			0.326	0.540	pg/g	28.75	0.76
2,3,7,8-TCDF [confirm]		3.37		1.92	1.92	pg/g	21.80	1.43*
1,2,3,7,8-PeCDF	**10.2**			0.474	2.70	pg/g	32.55	1.38
2,3,4,7,8-PeCDF	**21.9**			0.424	2.70	pg/g	33.07	1.68
1,2,3,4,7,8-HxCDF	**74.3**			0.888	2.70	pg/g	34.72	1.27
1,2,3,6,7,8-HxCDF	**55.4**			0.673	2.70	pg/g	34.80	1.17
2,3,4,6,7,8-HxCDF	**75.1**			0.918	2.70	pg/g	35.16	1.18
1,2,3,7,8,9-HxCDF	ND		U	1.43	2.70	pg/g		
1,2,3,4,6,7,8-HpCDF	**2110**			1.05	2.70	pg/g	36.81	1.04
1,2,3,4,7,8,9-HpCDF	**129**			1.45	2.70	pg/g	38.16	1.04
OCDF	**7260**		E	1.75	5.40	pg/g	40.80	0.90
Total TCDD	**128**	140		0.317	0.540	pg/g		
Total TCDF	**106**	119		0.326	0.540	pg/g		
Total PeCDD	**374**	387	Q	1.73	2.70	pg/g		
Total PeCDF	**624**	628		0.474	2.70	pg/g		
Total HxCDD	**1810**	1840		1.02	2.70	pg/g		
Total HxCDF	**2860**			1.43	2.70	pg/g		
Total HpCDD	**16200**		E	2.56	2.70	pg/g		
Total HpCDF	**7960**		E	1.45	2.70	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	247	247	247
WHO-2005 TEQ w/EMPC	pg/g	247	247	247

Print Date: 07/13/2012

N.C. Certification # 481

Results of **403P**

Client Sample ID: **403P**
Client Project ID: **Nord Door**
Lab Sample ID: 31201549007-A
Lab Project ID: 31201549

Collection Date: 05/17/2012 09:55
Received Date: 05/18/2012 10:00
Matrix: Soil-Solid as dry weight
Solids (%): 85.20

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	45.0				25.0-164	%		
13C-12378-PeCDD	18.0*		Q		25.0-181	%		
13C-123478-HxCDD	34.0				32.0-141	%		
13C-123678-HxCDD	31.0				28.0-130	%		
13C-1234678-HpCDD	28.0				23.0-140	%		
13C-OCDD	17.0				17.0-157	%		
13C-2378-TCDF	41.0				24.0-169	%		
13C-12378-PeCDF	21.0*				24.0-185	%		
13C-23478-PeCDF	24.0				21.0-178	%		
13C-123478-HxCDF	32.0				26.0-152	%		
13C-123678-HxCDF	36.0				26.0-123	%		
13C-234678-HxCDF	29.0				29.0-147	%		
13C-123789-HxCDF	23.0*				28.0-136	%		
13C-1234678-HpCDF	24.0*				28.0-143	%		
13C-1234789-HpCDF	22.0*				26.0-138	%		
37Cl-2378-TCDD	54.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1748**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JLJ**
Analytical Date/Time: **07/07/2012 16:49**
Dilution: **1**

Prep Batch: **HXX1625**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **06/06/2012 17:36**
Prep Initial Wt./Vol.: **10.87 g**
Prep Extract Vol: **20 uL**

Print Date: 07/13/2012

N.C. Certification # 481

Results of **404P**

Client Sample ID: **404P**
Client Project ID: **Nord Door**
Lab Sample ID: 31201549008-A
Lab Project ID: 31201549

Collection Date: 05/17/2012 13:05
Received Date: 05/18/2012 10:00
Matrix: Soil-Solid as dry weight
Solids (%): 91.70

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.216	0.509	pg/g		
1,2,3,7,8-PeCDD	**0.674**		J	0.165	2.55	pg/g	32.28	1.58
1,2,3,4,7,8-HxCDD	**0.694**		J	0.340	2.55	pg/g	34.50	1.12
1,2,3,6,7,8-HxCDD		2.90		0.357	2.55	pg/g	34.56	1.66*
1,2,3,7,8,9-HxCDD	**1.28**		J	0.348	2.55	pg/g	34.73	1.27
1,2,3,4,6,7,8-HpCDD	**74.0**			0.470	2.55	pg/g	36.87	1.03
OCDD	**591**			0.715	5.09	pg/g	39.69	0.91
2,3,7,8-TCDF	**1.59**			0.238	0.509	pg/g	25.09	0.74
2,3,7,8-TCDF [confirm]		1.99		0.865	0.865	pg/g	21.78	0.63*
1,2,3,7,8-PeCDF		0.827	J	0.345	2.55	pg/g	30.45	0.97*
2,3,4,7,8-PeCDF	**0.933**		J	0.243	2.55	pg/g	31.97	1.38
1,2,3,4,7,8-HxCDF		1.43	J	0.245	2.55	pg/g	33.94	0.81*
1,2,3,6,7,8-HxCDF		0.821	J	0.199	2.55	pg/g	34.01	1.53*
2,3,4,6,7,8-HxCDF		1.05	J	0.206	2.55	pg/g	34.39	0.80*
1,2,3,7,8,9-HxCDF	ND		U	0.348	2.55	pg/g		
1,2,3,4,6,7,8-HpCDF	**19.2**			0.265	2.55	pg/g	35.99	1.08
1,2,3,4,7,8,9-HpCDF	**1.75**		J	0.446	2.55	pg/g	37.30	1.08
OCDF	**61.0**			0.581	5.09	pg/g	39.85	0.89
Total TCDD	**6.86**	13.4		0.216	0.509	pg/g		
Total TCDF	**15.5**	20.7		0.238	0.509	pg/g		
Total PeCDD	**10.0**	13.1		0.165	2.55	pg/g		
Total PeCDF	**0.933**	8.84	J	0.345	2.55	pg/g		
Total HxCDD	**15.7**	26.9		0.357	2.55	pg/g		
Total HxCDF	**20.3**	23.6		0.348	2.55	pg/g		
Total HpCDD	**152**			0.470	2.55	pg/g		
Total HpCDF	**61.8**			0.446	2.55	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	2.30	2.52	2.74
WHO-2005 TEQ w/EMPC	pg/g	3.14	3.27	3.39

Print Date: 07/13/2012

N.C. Certification # 481

Results of **404P**

Client Sample ID: **404P**
Client Project ID: **Nord Door**
Lab Sample ID: 31201549008-A
Lab Project ID: 31201549

Collection Date: 05/17/2012 13:05
Received Date: 05/18/2012 10:00
Matrix: Soil-Solid as dry weight
Solids (%): 91.70

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	72.0				25.0-164	%		
13C-12378-PeCDD	74.0				25.0-181	%		
13C-123478-HxCDD	73.0				32.0-141	%		
13C-123678-HxCDD	70.0				28.0-130	%		
13C-1234678-HpCDD	73.0				23.0-140	%		
13C-OCDD	49.0				17.0-157	%		
13C-2378-TCDF	73.0				24.0-169	%		
13C-12378-PeCDF	73.0				24.0-185	%		
13C-23478-PeCDF	71.0				21.0-178	%		
13C-123478-HxCDF	72.0				26.0-152	%		
13C-123678-HxCDF	86.0				26.0-123	%		
13C-234678-HxCDF	83.0				29.0-147	%		
13C-123789-HxCDF	63.0				28.0-136	%		
13C-1234678-HpCDF	78.0				28.0-143	%		
13C-1234789-HpCDF	66.0				26.0-138	%		
37Cl-2378-TCDD	82.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1748**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JLJ**
Analytical Date/Time: **07/03/2012 23:01**
Dilution: **1**

Prep Batch: **HXX1625**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **06/06/2012 17:36**
Prep Initial Wt./Vol.: **10.71 g**
Prep Extract Vol: **20 uL**

Print Date: 07/13/2012

N.C. Certification # 481

Batch Summary

Analytical Method: EPA 1613B

Prep Method: EPA 1613 PREP S/D/T
Prep Batch: HXX1625
Prep Date: 06/06/2012 17:36

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
OPR for HBN 24380 [HXX/1625]	75287	06/24/2012 13:16	HRD1745	HRMS3	JLJ
LMB for HBN 24380 [HXX/1625]	75286	06/24/2012 14:01	HRD1745	HRMS3	JLJ
402P	31201549006	07/03/2012 21:35	HRD1748	HRMS3	JLJ
404P	31201549008	07/03/2012 23:01	HRD1748	HRMS3	JLJ
401P	31201549005	07/07/2012 16:04	HRD1748	HRMS3	JLJ
403P	31201549007	07/07/2012 16:49	HRD1748	HRMS3	JLJ
401P	31201549005	07/13/2012 11:38	HRD1748	HRMS3	JHL
402P	31201549006	07/13/2012 12:08	HRD1748	HRMS3	JHL
403P	31201549007	07/13/2012 12:37	HRD1748	HRMS3	JHL
404P	31201549008	07/13/2012 13:06	HRD1748	HRMS3	JHL

Method Blank Summary

Blank ID: LMB for HBN 24380 [HXX/1625]
Blank Lab ID: 75286
QC for Samples:
31201549005, 31201549006, 31201549007, 31201549008

Matrix: Soil-Solid as dry weight

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.0292	0.500	pg/g		
1,2,3,7,8-PeCDD		0.118	J	0.0196	2.50	pg/g	31.62	1.13*
1,2,3,4,7,8-HxCDD		0.170	J	0.0534	2.50	pg/g	33.82	1.64*
1,2,3,6,7,8-HxCDD		0.148	J	0.0570	2.50	pg/g	33.89	0.95*
1,2,3,7,8,9-HxCDD		0.162	J	0.0552	2.50	pg/g	34.06	2.28*
1,2,3,4,6,7,8-HpCDD		0.420	J	0.0712	2.50	pg/g	36.35	0.81*
OCDD	**1.78**		J	0.542	5.00	pg/g	39.41	0.76
2,3,7,8-TCDF	ND		U	0.0248	0.500	pg/g		
1,2,3,7,8-PeCDF	ND		U	0.0424	2.50	pg/g		
2,3,4,7,8-PeCDF		0.184	J	0.0278	2.50	pg/g	31.36	1.17*
1,2,3,4,7,8-HxCDF	**0.200**		J	0.0308	2.50	pg/g	33.23	1.27
1,2,3,6,7,8-HxCDF	**0.196**		J	0.0256	2.50	pg/g	33.31	1.34
2,3,4,6,7,8-HxCDF	**0.252**		J	0.0340	2.50	pg/g	33.71	1.25
1,2,3,7,8,9-HxCDF		0.298	J	0.0494	2.50	pg/g	34.25	1.51*
1,2,3,4,6,7,8-HpCDF	**0.236**		J	0.0342	2.50	pg/g	35.41	1.00
1,2,3,4,7,8,9-HpCDF	**0.320**		J	0.0828	2.50	pg/g	36.79	1.08
OCDF		0.690	J	0.106	5.00	pg/g	39.55	1.06*
Total TCDD	ND		U	0.0292	0.500	pg/g		
Total TCDF	ND	0.0800	J	0.0248	0.500	pg/g		
Total PeCDD	ND	0.118	J	0.0196	2.50	pg/g		
Total PeCDF	ND	0.184	J	0.0424	2.50	pg/g		
Total HxCDD	ND	0.480	J	0.0570	2.50	pg/g		
Total HxCDF	**0.648**	0.946	J	0.0494	2.50	pg/g		
Total HpCDD	**0.168**	0.588	J	0.0712	2.50	pg/g		
Total HpCDF	**0.556**		J	0.0828	2.50	pg/g		
Labeled Standards								
13C-2378-TCDD	70.0				25.0-164	%		
13C-12378-PeCDD	66.0				25.0-181	%		
13C-123478-HxCDD	70.0				32.0-141	%		
13C-123678-HxCDD	69.0				28.0-130	%		
13C-1234678-HpCDD	56.0				23.0-140	%		
13C-OCDD	33.0				17.0-157	%		
13C-2378-TCDF	57.0				24.0-169	%		
13C-12378-PeCDF	58.0				24.0-185	%		
13C-23478-PeCDF	52.0				21.0-178	%		
13C-123478-HxCDF	63.0				26.0-152	%		
13C-123678-HxCDF	83.0				26.0-123	%		
13C-234678-HxCDF	65.0				29.0-147	%		
13C-123789-HxCDF	53.0				28.0-136	%		
13C-1234678-HpCDF	77.0				28.0-143	%		

Print Date: 07/13/2012

N.C. Certification # 481

Method Blank Summary

Blank ID: LMB for HBN 24380 [HXX/1625]
Blank Lab ID: 75286
QC for Samples:
31201549005, 31201549006, 31201549007, 31201549008

Matrix: Soil-Solid as dry weight

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
13C-1234789-HpCDF	44.0				26.0-138	%		
37Cl-2378-TCDD	82.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1745**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JLJ**
Analytical Date/Time: **06/24/2012 14:01**
Dilution: **1**

Prep Batch: **HXX1625**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **06/06/2012 17:36**
Prep Initial Wt./Vol.: **10 g**
Prep Extract Vol: **20 uL**

Print Date: 07/13/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: OPR for HBN 24380 [HXX/1625]
Blank Spike Lab ID: 75287
Date Analyzed: 06/24/2012 13:16

Matrix: Soil-Solid as dry weight

QC for Samples: 31201549005, 31201549006, 31201549007, 31201549008

Results by **EPA 1613B**

Blank Spike (pg/g)

Parameter	Spike	Result	Rec (%)	CL
2,3,7,8-TCDD	20.0	19.5	98	67.0-158
1,2,3,7,8-PeCDD	100	95.3	95	70.0-142
1,2,3,4,7,8-HxCDD	100	97.6	98	70.0-164
1,2,3,6,7,8-HxCDD	100	115	115	76.0-134
1,2,3,7,8,9-HxCDD	100	109	109	64.0-162
1,2,3,4,6,7,8-HpCDD	100	101	101	70.0-140
OCDD	200	213	106	78.0-144
2,3,7,8-TCDF	20.0	21.9	110	75.0-158
1,2,3,7,8-PeCDF	100	106	106	80.0-134
2,3,4,7,8-PeCDF	100	97.3	97	68.0-160
1,2,3,4,7,8-HxCDF	100	113	113	72.0-134
1,2,3,6,7,8-HxCDF	100	102	102	84.0-130
2,3,4,6,7,8-HxCDF	100	99.3	99	70.0-156
1,2,3,7,8,9-HxCDF	100	104	104	78.0-130
1,2,3,4,6,7,8-HpCDF	100	96.5	97	82.0-122
1,2,3,4,7,8,9-HpCDF	100	93.6	94	78.0-138
OCDF	200	225	113	63.0-170
Labeled Standards				
13C-2378-TCDD			74	25.0-164
13C-12378-PeCDD			67	25.0-181
13C-123478-HxCDD			71	32.0-141
13C-123678-HxCDD			72	28.0-130
13C-1234678-HpCDD			59	23.0-140
13C-OCDD			34	17.0-157
13C-2378-TCDF			66	24.0-169
13C-12378-PeCDF			62	24.0-185
13C-23478-PeCDF			62	21.0-178
13C-123478-HxCDF			69	26.0-152
13C-123678-HxCDF			89	26.0-123
13C-234678-HxCDF			77	29.0-147
13C-123789-HxCDF			62	28.0-136
13C-1234678-HpCDF			71	28.0-143
13C-1234789-HpCDF			54	26.0-138
37Cl-2378-TCDD			82	35.0-197

Blank Spike Summary

Blank Spike ID: OPR for HBN 24380 [HXX/1625]
Blank Spike Lab ID: 75287
Date Analyzed: 06/24/2012 13:16

Matrix: Soil-Solid as dry weight

QC for Samples: 31201549005, 31201549006, 31201549007, 31201549008

Results by **EPA 1613B**

	Blank Spike (%)			
Parameter	Spike	Result	Rec (%)	CL

Batch Information

Analytical Batch: **HRD1745**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JLJ**

Prep Batch: **HXX1625**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **06/06/2012 17:36**
Spike Init Wt./Vol.: **10 g** Extract Vol: **20 uL**

Print Date: 07/13/2012

N.C. Certification # 481

SGS

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Locations Nationwide
- Alaska
- Maryland
- New Jersey
- New York
- North Carolina
- Ohio

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104215

WO# 31201549

(1)

CLIENT: SLR INTERNATIONAL CORP

CONTACT: SCOTT MILLER PHONE NO:(503) 723-4423

PROJECT: Nord Door SITE/PWSID# :

REPORTS TO: SAME FAX NO.:(503) 723-4486

INVOICE TO: SAME QUOTE #:

P.O. NUMBER: 108.00288.00037

SGS Reference: 31201549

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used: No	Analysis Required (3): DIOXINS/FURANS BY 1613	REMARKS
5/18/12 Loop Created	401P-GW	5/17/12	1123	WATER	2	G		CA	HOLD, PENDING SOIL RESULTS
	402P-GW		1222					CA	
	403P-GW		1030					CA	
1 cipoff	404P-GW		1326					CA	
	401P		1055	SOIL	1				
5/18/12 Received Broken.	402P		1155						
	403P		0955						
	404P		1305						

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(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
	5/17/12	1520	
Relinquished By: (2)	Date 5/18/12	Time 1000	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier: Fed Ex
Shipping Ticket No: 7984 1107 2538

Samples Received Cold? (Circle) YES NO
Temperature°C: 2.5°C

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions: GROUNDWATER SAMPLES MUST BE CENTRIFUGED PRIOR TO ANALYSIS.

Requested Turnaround Time:
☐ RUSH _____ Date Needed ☒ STD

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: **Jeld Wen (SLR)** Work Order No.: **31201549**

1. _X_ Shipped
   ___ Hand Delivered

2. _X_ COC Present on Receipt
   ___ No COC
   ___ Additional Transmittal Forms

3. _X_ Custody Tape on Container
   ___ No Custody Tape

4. ___ Samples Intact
   _X_ Samples Broken / Leaking

5. _X_ Chilled on Receipt Actual Temp.(s) in °C: 2.5
   ___ Ambient on Receipt
   ___ Walk-in on Ice; Coming down to temp.
   ___ Received Outside of Temperature Specifications

6. _X_ Sufficient Sample Submitted
   ___ Insufficient Sample Submitted

7. _X_ Chlorine absent
   ___ HNO3 < 2
   ___ HCL < 2
   ___ Additional Preservatives verified (see notes)

8. _X_ Received Within Holding Time
   ___ Not Received Within Holding Time

9. ___ No Discrepancies Noted
   _X_ Discrepancies Noted
   ___ NCDENR notified of Descrepancies*

10. ___ No Headspace present in VOC vials
    ___ Headspace present in VOC vials >6mm

Notes:

Comments: Received soil jar 402P broken, sample transferred into clean jars.
Received water 404P-GW with cap cracked and off.
Received water 401P-GW with cap cracked and sample intact.
Both caps were replaced with clean caps.

Inspected and Logged in by: JJ
Date: Fri-5/18/12 00:00

*NCDENR must be notified when collection, holding time or preservation requirements are not met. MI_11.6

Laboratory Report of Analysis

To: Chris Kramer
SLR International
1800 Blankenship Road
Suite 440
West Linn, OR 97068

Report Number: **31201701**

Client Project: **Nord Door**

Dear Chris Kramer,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Amy J. Boehm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Amy J. Boehm Date
Project Manager
amy.boehm@sgs.com

Print Date: 06/28/2012 N.C. Certification # 481

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

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Member of the SGS Group (SGS SA)

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MW-6-GW	31201701001	05/24/2012 12:46	06/01/2012 10:30	Water

Results of **MW-6-GW**

Client Sample ID: **MW-6-GW**
Client Project ID: **Nord Door**
Lab Sample ID: 31201701001-A
Lab Project ID: 31201701

Collection Date: 05/24/2012 12:46
Received Date: 06/01/2012 10:30
Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.00185	0.0103	ng/L		
1,2,3,7,8-PeCDD	ND		U	0.00135	0.0514	ng/L		
1,2,3,4,7,8-HxCDD	ND		U	0.00182	0.0514	ng/L		
1,2,3,6,7,8-HxCDD	ND		U	0.00180	0.0514	ng/L		
1,2,3,7,8,9-HxCDD	ND		U	0.00180	0.0514	ng/L		
1,2,3,4,6,7,8-HpCDD	ND		U	0.00343	0.0514	ng/L		
OCDD		0.0542	J	0.00596	0.103	ng/L	39.08	1.09*
2,3,7,8-TCDF	ND		U	0.00149	0.0103	ng/L		
1,2,3,7,8-PeCDF	ND		U	0.00195	0.0514	ng/L		
2,3,4,7,8-PeCDF	ND		U	0.00114	0.0514	ng/L		
1,2,3,4,7,8-HxCDF	ND		U	0.00107	0.0514	ng/L		
1,2,3,6,7,8-HxCDF	ND		U	0.000939	0.0514	ng/L		
2,3,4,6,7,8-HxCDF	ND		U	0.00102	0.0514	ng/L		
1,2,3,7,8,9-HxCDF	ND		U	0.00168	0.0514	ng/L		
1,2,3,4,6,7,8-HpCDF	ND		U	0.00195	0.0514	ng/L		
1,2,3,4,7,8,9-HpCDF	ND		U	0.00329	0.0514	ng/L		
OCDF	ND		U	0.00439	0.103	ng/L		
Total TCDD	ND		U	0.00185	0.0103	ng/L		
Total TCDF	ND		U	0.00149	0.0103	ng/L		
Total PeCDD	ND		U	0.00135	0.0514	ng/L		
Total PeCDF	ND		U	0.00195	0.0514	ng/L		
Total HxCDD	ND	0.00662	J	0.00182	0.0514	ng/L		
Total HxCDF	ND		U	0.00168	0.0514	ng/L		
Total HpCDD	ND		U	0.00343	0.0514	ng/L		
Total HpCDF	ND	0.00349	J	0.00329	0.0514	ng/L		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	ng/L	0.00	0.00243	0.00485
WHO-2005 TEQ w/EMPC	ng/L	0.0000163	0.00244	0.00487

Print Date: 06/28/2012

N.C. Certification # 481

Results of **MW-6-GW**

Client Sample ID: **MW-6-GW**
Client Project ID: **Nord Door**
Lab Sample ID: 31201701001-A
Lab Project ID: 31201701

Collection Date: 05/24/2012 12:46
Received Date: 06/01/2012 10:30
Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	81.0				25.0-164	%		
13C-12378-PeCDD	79.0				25.0-181	%		
13C-123478-HxCDD	68.0				32.0-141	%		
13C-123678-HxCDD	87.0				28.0-130	%		
13C-1234678-HpCDD	63.0				23.0-140	%		
13C-OCDD	46.0				17.0-157	%		
13C-2378-TCDF	77.0				24.0-169	%		
13C-12378-PeCDF	79.0				24.0-185	%		
13C-23478-PeCDF	80.0				21.0-178	%		
13C-123478-HxCDF	77.0				26.0-152	%		
13C-123678-HxCDF	98.0				26.0-123	%		
13C-234678-HxCDF	88.0				29.0-147	%		
13C-123789-HxCDF	68.0				28.0-136	%		
13C-1234678-HpCDF	74.0				28.0-143	%		
13C-1234789-HpCDF	59.0				26.0-138	%		
37Cl-2378-TCDD	94.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1750**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JLJ**
Analytical Date/Time: **06/25/2012 16:52**
Dilution: **1**

Prep Batch: **HXX1633**
Prep Method: **EPA 1613B**
Prep Date/Time: **06/10/2012 18:00**
Prep Initial Wt./Vol.: **973 mL**
Prep Extract Vol: **20 uL**

Print Date: 06/28/2012

N.C. Certification # 481

Batch Summary

Analytical Method: EPA 1613B

Prep Method: EPA 1613B
Prep Batch: HXX1633
Prep Date: 06/10/2012 18:00

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
OPR for HBN 24479 [HXX/1633]	75800	06/19/2012 22:55	HRD1750	HRMS3	MAF
LMB for HBN 24479 [HXX/1633]	75799	06/19/2012 23:40	HRD1750	HRMS3	MAF
MW-6-GW	31201701001	06/25/2012 16:52	HRD1750	HRMS3	JLJ

SGS North America Inc.
5500 Business Drive, Wilmington, NC 28405
t 910.350.1903 f 910.350.1557 www.us.sgs.com

Method Blank Summary

Blank ID: LMB for HBN 24479 [HXX/1633]
Blank Lab ID: 75799
QC for Samples:
31201701001

Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.000714	0.0100	ng/L		
1,2,3,7,8-PeCDD		0.00162	J	0.000620	0.0500	ng/L	31.67	1.79*
1,2,3,4,7,8-HxCDD		0.00448	J	0.000674	0.0500	ng/L	33.85	1.04*
1,2,3,6,7,8-HxCDD	**0.00430**		J	0.000686	0.0500	ng/L	33.89	1.07
1,2,3,7,8,9-HxCDD		0.00342	J	0.000680	0.0500	ng/L	34.05	0.84*
1,2,3,4,6,7,8-HpCDD		0.00564	J	0.00105	0.0500	ng/L	36.32	0.87*
OCDD		0.0172	J	0.00426	0.100	ng/L	39.35	1.20*
2,3,7,8-TCDF	ND		U	0.000764	0.0100	ng/L		
1,2,3,7,8-PeCDF	**0.00182**		J	0.000916	0.0500	ng/L	30.14	1.43
2,3,4,7,8-PeCDF	**0.00260**		J	0.000570	0.0500	ng/L	31.41	1.37
1,2,3,4,7,8-HxCDF		0.00322	J	0.000464	0.0500	ng/L	33.25	1.93*
1,2,3,6,7,8-HxCDF	**0.00290**		J	0.000400	0.0500	ng/L	33.34	1.21
2,3,4,6,7,8-HxCDF	**0.00394**		J	0.000402	0.0500	ng/L	33.72	1.32
1,2,3,7,8,9-HxCDF	**0.00456**		J	0.000608	0.0500	ng/L	34.25	1.28
1,2,3,4,6,7,8-HpCDF	**0.00472**		J	0.000788	0.0500	ng/L	35.41	0.98
1,2,3,4,7,8,9-HpCDF	**0.00568**		J	0.00134	0.0500	ng/L	36.76	1.15
OCDF	**0.0119**		J	0.00235	0.100	ng/L	39.55	0.92
Total TCDD	ND		U	0.000714	0.0100	ng/L		
Total TCDF	ND		U	0.000764	0.0100	ng/L		
Total PeCDD	ND	0.00162	J	0.000620	0.0500	ng/L		
Total PeCDF	**0.00442**		J	0.000916	0.0500	ng/L		
Total HxCDD	**0.00430**	0.0122	J	0.000686	0.0500	ng/L		
Total HxCDF	**0.0114**	0.0146	J	0.000608	0.0500	ng/L		
Total HpCDD	ND	0.00564	J	0.00105	0.0500	ng/L		
Total HpCDF	**0.0104**		J	0.00134	0.0500	ng/L		
Labeled Standards								
13C-2378-TCDD	78.0				25.0-164	%		
13C-12378-PeCDD	68.0				25.0-181	%		
13C-123478-HxCDD	78.0				32.0-141	%		
13C-123678-HxCDD	85.0				28.0-130	%		
13C-1234678-HpCDD	81.0				23.0-140	%		
13C-OCDD	57.0				17.0-157	%		
13C-2378-TCDF	54.0				24.0-169	%		
13C-12378-PeCDF	76.0				24.0-185	%		
13C-23478-PeCDF	69.0				21.0-178	%		
13C-123478-HxCDF	77.0				26.0-152	%		
13C-123678-HxCDF	95.0				26.0-123	%		
13C-234678-HxCDF	92.0				29.0-147	%		
13C-123789-HxCDF	79.0				28.0-136	%		
13C-1234678-HpCDF	88.0				28.0-143	%		

Print Date: 06/28/2012

N.C. Certification # 481

Method Blank Summary

Blank ID: LMB for HBN 24479 [HXX/1633]
Matrix: Water
Blank Lab ID: 75799
QC for Samples:
31201701001

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
13C-1234789-HpCDF	78.0				26.0-138	%		
37Cl-2378-TCDD	79.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1750**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **MAF**
Analytical Date/Time: **06/19/2012 23:40**
Dilution: **1**

Prep Batch: **HXX1633**
Prep Method: **EPA 1613B**
Prep Date/Time: **06/10/2012 18:00**
Prep Initial Wt./Vol.: **1000 mL**
Prep Extract Vol: **20 uL**

Blank Spike Summary

Blank Spike ID: OPR for HBN 24479 [HXX/1633]
Blank Spike Lab ID: 75800
Date Analyzed: 06/19/2012 22:55

Matrix: Water

QC for Samples: 31201701001

Results by **EPA 1613B**

Blank Spike (ng/L)

Parameter	Spike	Result	Rec (%)	CL
2,3,7,8-TCDD	0.200	0.205	103	67.0-158
1,2,3,7,8-PeCDD	1.00	1.02	102	70.0-142
1,2,3,4,7,8-HxCDD	1.00	1.06	106	70.0-164
1,2,3,6,7,8-HxCDD	1.00	1.06	106	76.0-134
1,2,3,7,8,9-HxCDD	1.00	1.08	108	64.0-162
1,2,3,4,6,7,8-HpCDD	1.00	1.04	104	70.0-140
OCDD	2.00	2.21	110	78.0-144
2,3,7,8-TCDF	0.200	0.212	106	75.0-158
1,2,3,7,8-PeCDF	1.00	1.11	111	80.0-134
2,3,4,7,8-PeCDF	1.00	1.03	103	68.0-160
1,2,3,4,7,8-HxCDF	1.00	1.11	111	72.0-134
1,2,3,6,7,8-HxCDF	1.00	1.01	101	84.0-130
2,3,4,6,7,8-HxCDF	1.00	1.06	106	70.0-156
1,2,3,7,8,9-HxCDF	1.00	1.10	110	78.0-130
1,2,3,4,6,7,8-HpCDF	1.00	1.02	102	82.0-122
1,2,3,4,7,8,9-HpCDF	1.00	0.988	99	78.0-138
OCDF	2.00	2.31	116	63.0-170
Labeled Standards				
13C-2378-TCDD			67	25.0-164
13C-12378-PeCDD			70	25.0-181
13C-123478-HxCDD			77	32.0-141
13C-123678-HxCDD			80	28.0-130
13C-1234678-HpCDD			76	23.0-140
13C-OCDD			56	17.0-157
13C-2378-TCDF			38	24.0-169
13C-12378-PeCDF			74	24.0-185
13C-23478-PeCDF			71	21.0-178
13C-123478-HxCDF			79	26.0-152
13C-123678-HxCDF			94	26.0-123
13C-234678-HxCDF			86	29.0-147
13C-123789-HxCDF			77	28.0-136
13C-1234678-HpCDF			82	28.0-143
13C-1234789-HpCDF			76	26.0-138
37Cl-2378-TCDD			78	35.0-197

Blank Spike Summary

Blank Spike ID: OPR for HBN 24479 [HXX/1633]
Blank Spike Lab ID: 75800
Date Analyzed: 06/19/2012 22:55

Matrix: Water

QC for Samples: 31201701001

Results by **EPA 1613B**

Parameter	Blank Spike (%) Spike	Result	Rec (%)	CL

Batch Information

Analytical Batch: **HRD1750**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **MAF**

Prep Batch: **HXX1633**
Prep Method: **EPA 1613B**
Prep Date/Time: **06/10/2012 18:00**
Spike Init Wt./Vol.: **1000 mL** Extract Vol: **20 uL**

Print Date: 06/28/2012

N.C. Certification # 481

CHAIN OF CUSTODY RECORD
SGS North America Inc.

Locations Nationwide
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- New Jersey
- North Carolina
- Maryland
- New York
- Ohio

www.us.sgs.com

104216

WO# 31201701

(1)
CLIENT: SLR INTERNATIONAL CORP
CONTACT: CHRIS KRAMER PHONE NO:(503) 723-4423
PROJECT: Nord Door SITE/PWSID# :
REPORTS TO:
CHRIS KRAMER FAX NO.:( )
INVOICE TO: QUOTE #:
SAME P.O. NUMBER:

SGS Reference: 31201701

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE C= COMP G= GRAB	Preservatives Used: No	Analysis Required (3): Dioxins & Furans by EPA 1613B	REMARKS
	MW-6-GW	5/24/12	1246	W	2	G		X	

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
	5/30/12 CA 5/31/12	1030 CA 1430	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 6/1/12	Time 1030	Received By:

(4)

Shipping Carrier: Fed Ex
Shipping Ticket No:
Samples Received Cold? (Circle) YES NO
Temperature°C: 1.3 . on ice
Special Deliverable Requirements:
Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT
Special Instructions:
Requested Turnaround Time:
☐ RUSH _____ (Date Needed) ☐ STD

☐ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
☐ 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

White - Retained by Lab
Pink - Retained by Client

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: **Jeld-Wen** Work Order No.: **31201701**

1. _X_ Shipped
   ___ Hand Delivered

2. _X_ COC Present on Receipt
   ___ No COC
   ___ Additional Transmittal Forms

3. _X_ Custody Tape on Container
   ___ No Custody Tape

4. ___ Samples Intact
   _X_ Samples Broken / Leaking

5. _X_ Chilled on Receipt Actual Temp.(s) in °C: 1.3
   ___ Ambient on Receipt
   _X_ Walk-in on Ice; Coming down to temp.
   ___ Received Outside of Temperature Specifications

6. _X_ Sufficient Sample Submitted
   ___ Insufficient Sample Submitted

7. _X_ Chlorine absent
   ___ HNO3 < 2
   ___ HCL < 2
   ___ Additional Preservatives verified (see notes)

8. _X_ Received Within Holding Time
   ___ Not Received Within Holding Time

9. _X_ No Discrepancies Noted
   ___ Discrepancies Noted
   ___ NCDENR notified of Descrepancies*

10. ___ No Headspace present in VOC vials
    ___ Headspace present in VOC vials >6mm

Notes:

Comments:

Inspected and Logged in by: JJ

Date: Fri-6/1/12 00:00

*NCDENR must be notified when collection, holding time or preservation requirements are not met.

Laboratory Report of Analysis

To: Chris Kramer
SLR International
1800 Blankenship Road
Suite 440
West Linn, OR 97068

Report Number: **31202209**

Client Project: **Nord Door**

Dear Chris Kramer,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Amy J. Boehm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Amy J. Boehm Date
Project Manager
amy.boehm@sgs.com

Print Date: 08/08/2012 N.C. Certification # 481

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

Laboratory Qualifiers

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A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
403P-GW	31202209001	05/17/2012 10:30	05/18/2012 10:00	Water

Case Narrative

LMB for HBN 25732 [HXX/1682]

Sample has elevated PeCDD/PeCDF extraction standard recoveries, but PeCDD/PeCDF native recoveries in the OPR are normal. EDL's are good; No adverse impact to data. Ok to use. - HL 8/8/2012

OPR for HBN 25732 [HXX/1682]

Sample has elevated PeCDD/PeCDF extraction standard recoveries, but PeCDD/PeCDF native recoveries are normal. No adverse impact to data, ok to use. - HL 8/8/2012

Results of **403P-GW**

Client Sample ID: **403P-GW**
Client Project ID: **Nord Door**
Lab Sample ID: 31202209001-A
Lab Project ID: 31202209

Collection Date: 05/17/2012 10:30
Received Date: 05/18/2012 10:00
Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.00185	0.0101	ng/L		
1,2,3,7,8-PeCDD	ND		U	0.000765	0.0507	ng/L		
1,2,3,4,7,8-HxCDD	ND		U	0.00104	0.0507	ng/L		
1,2,3,6,7,8-HxCDD	ND		U	0.00102	0.0507	ng/L		
1,2,3,7,8,9-HxCDD	ND		U	0.00108	0.0507	ng/L		
1,2,3,4,6,7,8-HpCDD	**0.00708**		J	0.00214	0.0507	ng/L	37.93	1.00
OCDD	**0.0634**		J	0.00263	0.101	ng/L	40.83	0.86
2,3,7,8-TCDF	ND		U	0.000744	0.0101	ng/L		
1,2,3,7,8-PeCDF	ND		U	0.000446	0.0507	ng/L		
2,3,4,7,8-PeCDF	ND		U	0.000416	0.0507	ng/L		
1,2,3,4,7,8-HxCDF	ND		U	0.000629	0.0507	ng/L		
1,2,3,6,7,8-HxCDF	ND		U	0.000600	0.0507	ng/L		
2,3,4,6,7,8-HxCDF	ND		U	0.000621	0.0507	ng/L		
1,2,3,7,8,9-HxCDF	ND		U	0.000949	0.0507	ng/L		
1,2,3,4,6,7,8-HpCDF		0.00247	J	0.000596	0.0507	ng/L	37.04	0.71*
1,2,3,4,7,8,9-HpCDF	ND		U	0.000945	0.0507	ng/L		
OCDF		0.00779	J	0.00259	0.101	ng/L	41.05	1.07*
Total TCDD	**0.00724**	0.0130	J	0.00185	0.0101	ng/L		
Total TCDF	ND		U	0.000744	0.0101	ng/L		
Total PeCDD	**0.00542**	0.00716	J	0.000765	0.0507	ng/L		
Total PeCDF	ND		U	0.000446	0.0507	ng/L		
Total HxCDD	**0.00874**		J	0.00108	0.0507	ng/L		
Total HxCDF	ND		U	0.000949	0.0507	ng/L		
Total HpCDD	**0.0172**		J	0.00214	0.0507	ng/L		
Total HpCDF	ND	0.00742	J	0.000945	0.0507	ng/L		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	ng/L	0.0000898	0.00181	0.00353
WHO-2005 TEQ w/EMPC	ng/L	0.000117	0.00183	0.00355

Print Date: 08/08/2012

N.C. Certification # 481

Results of **403P-GW**

Client Sample ID: **403P-GW**
Client Project ID: **Nord Door**
Lab Sample ID: 31202209001-A
Lab Project ID: 31202209

Collection Date: 05/17/2012 10:30
Received Date: 05/18/2012 10:00
Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	98.0				25.0-164	%		
13C-12378-PeCDD	110				25.0-181	%		
13C-123478-HxCDD	91.0				32.0-141	%		
13C-123678-HxCDD	89.0				28.0-130	%		
13C-1234678-HpCDD	110				23.0-140	%		
13C-OCDD	82.0				17.0-157	%		
13C-2378-TCDF	89.0				24.0-169	%		
13C-12378-PeCDF	100				24.0-185	%		
13C-23478-PeCDF	100				21.0-178	%		
13C-123478-HxCDF	92.0				26.0-152	%		
13C-123678-HxCDF	99.0				26.0-123	%		
13C-234678-HxCDF	99.0				29.0-147	%		
13C-123789-HxCDF	86.0				28.0-136	%		
13C-1234678-HpCDF	99.0				28.0-143	%		
13C-1234789-HpCDF	100				26.0-138	%		
37Cl-2378-TCDD	110				35.0-197	%		

Batch Information

Analytical Batch: **HRD1789**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JHL**
Analytical Date/Time: **08/07/2012 22:05**
Dilution: **1**

Prep Batch: **HXX1682**
Prep Method: **EPA 1613B**
Prep Date/Time: **07/17/2012 17:30**
Prep Initial Wt./Vol.: **986 mL**
Prep Extract Vol: **20 uL**

Print Date: 08/08/2012

N.C. Certification # 481

Batch Summary

Analytical Method: EPA 1613B

Prep Method: EPA 1613B
Prep Batch: HXX1682
Prep Date: 07/17/2012 17:30

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
OPR for HBN 25732 [HXX/1682]	80837	08/05/2012 18:23	HRD1789	HRMS3	JHL
LMB for HBN 25732 [HXX/1682]	80836	08/05/2012 19:07	HRD1789	HRMS3	JHL
403P-GW	31202209001	08/07/2012 22:05	HRD1789	HRMS3	JHL

Print Date: 08/08/2012

N.C. Certification # 481

Method Blank Summary

Blank ID: LMB for HBN 25732 [HXX/1682]
Blank Lab ID: 80836
QC for Samples:
31202209001

Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.000490	0.0100	ng/L		
1,2,3,7,8-PeCDD	**0.00128**		J	0.000248	0.0500	ng/L	33.39	1.63
1,2,3,4,7,8-HxCDD		0.00116	J	0.000560	0.0500	ng/L	35.44	2.00*
1,2,3,6,7,8-HxCDD		0.00166	J	0.000624	0.0500	ng/L	35.52	1.02*
1,2,3,7,8,9-HxCDD	**0.000840**		J	0.000618	0.0500	ng/L	35.70	1.40
1,2,3,4,6,7,8-HpCDD		0.00216	J	0.000598	0.0500	ng/L	37.94	0.68*
OCDD	ND		U	0.00149	0.100	ng/L		
2,3,7,8-TCDF	ND		U	0.000392	0.0100	ng/L		
1,2,3,7,8-PeCDF		0.000960	J	0.000158	0.0500	ng/L	32.69	0.98*
2,3,4,7,8-PeCDF		0.00104	J	0.000150	0.0500	ng/L	33.23	1.30*
1,2,3,4,7,8-HxCDF		0.00136	J	0.000240	0.0500	ng/L	34.90	1.66*
1,2,3,6,7,8-HxCDF	**0.000860**		J	0.000216	0.0500	ng/L	34.97	1.41
2,3,4,6,7,8-HxCDF		0.00128	J	0.000252	0.0500	ng/L	35.35	1.03*
1,2,3,7,8,9-HxCDF		0.00176	J	0.000386	0.0500	ng/L	35.94	1.01*
1,2,3,4,6,7,8-HpCDF	**0.00178**		J	0.000378	0.0500	ng/L	37.02	0.98
1,2,3,4,7,8,9-HpCDF		0.00186	J	0.000578	0.0500	ng/L	38.42	1.53*
OCDF		0.00556	J	0.00117	0.100	ng/L	41.13	1.44*
Total TCDD	ND		U	0.000490	0.0100	ng/L		
Total TCDF	ND		U	0.000392	0.0100	ng/L		
Total PeCDD	**0.00128**		J	0.000248	0.0500	ng/L		
Total PeCDF	ND	0.00200	J	0.000158	0.0500	ng/L		
Total HxCDD	**0.000840**	0.00624	J	0.000624	0.0500	ng/L		
Total HxCDF	**0.000860**	0.00526	J	0.000386	0.0500	ng/L		
Total HpCDD	ND	0.00368	J	0.000598	0.0500	ng/L		
Total HpCDF	**0.00178**	0.00364	J	0.000578	0.0500	ng/L		

Labeled Standards

13C-2378-TCDD	97.0	25.0-164	%
13C-12378-PeCDD	140	25.0-181	%
13C-123478-HxCDD	93.0	32.0-141	%
13C-123678-HxCDD	87.0	28.0-130	%
13C-1234678-HpCDD	96.0	23.0-140	%
13C-OCDD	70.0	17.0-157	%
13C-2378-TCDF	85.0	24.0-169	%
13C-12378-PeCDF	120	24.0-185	%
13C-23478-PeCDF	130	21.0-178	%
13C-123478-HxCDF	95.0	26.0-152	%
13C-123678-HxCDF	110	26.0-123	%
13C-234678-HxCDF	100	29.0-147	%
13C-123789-HxCDF	88.0	28.0-136	%
13C-1234678-HpCDF	85.0	28.0-143	%

Print Date: 08/08/2012

N.C. Certification # 481

Method Blank Summary

Blank ID: LMB for HBN 25732 [HXX/1682]
Blank Lab ID: 80836
QC for Samples:
31202209001

Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
13C-1234789-HpCDF	89.0				26.0-138	%		
37Cl-2378-TCDD	120				35.0-197	%		

Batch Information

Analytical Batch: **HRD1789**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JHL**
Analytical Date/Time: **08/05/2012 19:07**
Dilution: **1**

Prep Batch: **HXX1682**
Prep Method: **EPA 1613B**
Prep Date/Time: **07/17/2012 17:30**
Prep Initial Wt./Vol.: **1000 mL**
Prep Extract Vol: **20 uL**

Print Date: 08/08/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: OPR for HBN 25732 [HXX/1682]
Blank Spike Lab ID: 80837
Date Analyzed: 08/05/2012 18:23

Matrix: Water

QC for Samples: 31202209001

Results by **EPA 1613B**

Blank Spike (ng/L)

Parameter	Spike	Result	Rec (%)	CL
2,3,7,8-TCDD	0.200	0.209	105	67.0-158
1,2,3,7,8-PeCDD	1.00	0.899	90	70.0-142
1,2,3,4,7,8-HxCDD	1.00	1.06	106	70.0-164
1,2,3,6,7,8-HxCDD	1.00	1.11	111	76.0-134
1,2,3,7,8,9-HxCDD	1.00	1.11	111	64.0-162
1,2,3,4,6,7,8-HpCDD	1.00	1.03	103	70.0-140
OCDD	2.00	2.05	103	78.0-144
2,3,7,8-TCDF	0.200	0.213	107	75.0-158
1,2,3,7,8-PeCDF	1.00	1.13	113	80.0-134
2,3,4,7,8-PeCDF	1.00	1.03	103	68.0-160
1,2,3,4,7,8-HxCDF	1.00	1.17	117	72.0-134
1,2,3,6,7,8-HxCDF	1.00	1.12	112	84.0-130
2,3,4,6,7,8-HxCDF	1.00	1.09	109	70.0-156
1,2,3,7,8,9-HxCDF	1.00	1.18	118	78.0-130
1,2,3,4,6,7,8-HpCDF	1.00	1.05	105	82.0-122
1,2,3,4,7,8,9-HpCDF	1.00	1.02	102	78.0-138
OCDF	2.00	2.75	138	63.0-170
Labeled Standards				
13C-2378-TCDD			99	25.0-164
13C-12378-PeCDD			160	25.0-181
13C-123478-HxCDD			100	32.0-141
13C-123678-HxCDD			93	28.0-130
13C-1234678-HpCDD			99	23.0-140
13C-OCDD			71	17.0-157
13C-2378-TCDF			87	24.0-169
13C-12378-PeCDF			140	24.0-185
13C-23478-PeCDF			140	21.0-178
13C-123478-HxCDF			97	26.0-152
13C-123678-HxCDF			110	26.0-123
13C-234678-HxCDF			100	29.0-147
13C-123789-HxCDF			92	28.0-136
13C-1234678-HpCDF			90	28.0-143
13C-1234789-HpCDF			95	26.0-138
37Cl-2378-TCDD			120	35.0-197

Blank Spike Summary

Blank Spike ID: OPR for HBN 25732 [HXX/1682]
Blank Spike Lab ID: 80837
Date Analyzed: 08/05/2012 18:23

Matrix: Water

QC for Samples: 31202209001

Results by **EPA 1613B**

Parameter	Blank Spike (%) Spike	Result	Rec (%)	CL

Batch Information

Analytical Batch: **HRD1789**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JHL**

Prep Batch: **HXX1682**
Prep Method: **EPA 1613B**
Prep Date/Time: **07/17/2012 17:30**
Spike Init Wt./Vol.: **1000 mL** Extract Vol: **20 uL**

SGS

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104215

WO# 31202209

(1)

CLIENT: SLR INTERNATIONAL CORP

CONTACT: SCOTT MILLER PHONE NO:(503) 723-4423

PROJECT: Nord Door SITE/PWSID# :

REPORTS TO: SAME FAX NO.:(503) 723-4486

INVOICE TO: SAME QUOTE #:

P.O. NUMBER: 108.00288.00037

SGS Reference: 312 01549

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used: No	Analysis Required (3): DIOXINS/FURANS BY 1613	REMARKS
5/18/12 Loop Created	401P-GW	5/17/12	1123	WATER	2	G		CA	HOLD, PENDING SOIL RESULTS
	402P-GW		1222					CA	
	403P-GW		1030					CA	
1 cipoff	404P-GW		1326					CA	
	401P		1055	SOIL	1				
5/18/12 Received Broken.	402P		1155						
	403P		0955						
	404P		1305						

Page 2 of 13

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
	5/17/12	1520	
Relinquished By: (2)	Date 5/18/12	Time 1000	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier: Fed Ex
Shipping Ticket No: 7984 1107 2538

Samples Received Cold? (Circle) YES NO
Temperature°C: 2.5°C

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions: GROUNDWATER SAMPLES MUST BE CENTRIFUGED PRIOR TO ANALYSIS.

Requested Turnaround Time:
☐ RUSH _____ Date Needed ☒ STD

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: **Jeld Wen (SLR)** Work Order No.: **31201549**

1. _X_ Shipped
   ___ Hand Delivered

2. _X_ COC Present on Receipt
   ___ No COC
   ___ Additional Transmittal Forms

3. _X_ Custody Tape on Container
   ___ No Custody Tape

4. ___ Samples Intact
   _X_ Samples Broken / Leaking

5. _X_ Chilled on Receipt Actual Temp.(s) in °C: 2.5
   ___ Ambient on Receipt
   ___ Walk-in on Ice; Coming down to temp.
   ___ Received Outside of Temperature Specifications

6. _X_ Sufficient Sample Submitted
   ___ Insufficient Sample Submitted

7. _X_ Chlorine absent
   ___ HNO3 < 2
   ___ HCL < 2
   ___ Additional Preservatives verified (see notes)

8. _X_ Received Within Holding Time
   ___ Not Received Within Holding Time

9. ___ No Discrepancies Noted
   _X_ Discrepancies Noted
   ___ NCDENR notified of Descrepancies*

10. ___ No Headspace present in VOC vials
    ___ Headspace present in VOC vials >6mm

Notes:

Comments: Received soil jar 402P broken, sample transferred into clean jars.

Received water 404P-GW with cap cracked and off.
Received water 401P-GW with cap cracked and sample intact.
Both caps were replaced with clean caps.

Inspected and Logged in by: JJ
Date: Fri-5/18/12 00:00

*NCDENR must be notified when collection, holding time or preservation requirements are not met. MI_11.6

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Chris Kramer (SLR)
Jeld-Wen
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Report Summary

Tuesday June 12, 2012

Report Number: L577797
Samples Received: 05/31/12
Client Project: 108.0228.00037

Description: Nord Door Project - Everett, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jarred Willis

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

ESC LAB SCIENCES
YOUR LAB OF CHOICE

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Chris Kramer (SLR)
Jeld-Wen
1800 Blankenship Road, Suite 440
West Linn, OR 97068

June 12, 2012

ESC Sample # : L577797-01

Date Received : May 31, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : MW-1-GW

Project # : 108.0228.00037

Collected By : Chris Lee
Collection Date : 05/24/12 13:31

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Antimony	U	0.21	1.0	ug/l		6020	06/04/12	1
Antimony,Dissolved	U	0.21	1.0	ug/l		6020	06/04/12	1
Arsenic	10.	0.25	1.0	ug/l		6020	06/04/12	1
Arsenic,Dissolved	2.9	0.25	1.0	ug/l		6020	06/04/12	1
Beryllium	U	0.12	1.0	ug/l		6020	06/04/12	1
Beryllium,Dissolved	U	0.12	1.0	ug/l		6020	06/04/12	1
Cadmium	U	0.16	0.50	ug/l		6020	06/04/12	1
Cadmium,Dissolved	U	0.16	0.50	ug/l		6020	06/04/12	1
Chromium	5.1	0.54	2.0	ug/l		6020	06/04/12	1
Chromium,Dissolved	U	0.54	2.0	ug/l		6020	06/04/12	1
Copper	0.56	0.52	2.0	ug/l	J	6020	06/04/12	1
Copper,Dissolved	0.56	0.52	2.0	ug/l	J	6020	06/04/12	1
Lead	0.32	0.24	1.0	ug/l	J	6020	06/04/12	1
Lead,Dissolved	U	0.24	1.0	ug/l		6020	06/04/12	1
Nickel	2.9	0.35	1.0	ug/l		6020	06/04/12	1
Nickel,Dissolved	3.2	0.35	1.0	ug/l		6020	06/04/12	1
Selenium	2.2	0.38	1.0	ug/l		6020	06/04/12	1
Selenium,Dissolved	U	0.38	1.0	ug/l		6020	06/06/12	1
Silver	U	0.31	1.0	ug/l		6020	06/04/12	1
Silver,Dissolved	U	0.31	1.0	ug/l		6020	06/04/12	1
Thallium	U	0.19	1.0	ug/l		6020	06/04/12	1
Thallium,Dissolved	U	0.19	1.0	ug/l		6020	06/04/12	1
Zinc	U	2.6	10.	ug/l		6020	06/04/12	1
Zinc,Dissolved	U	2.6	10.	ug/l		6020	06/04/12	1
Mercury	U	0.015	0.20	ug/l		7470A	06/01/12	1
Mercury,Dissolved	0.020	0.015	0.20	ug/l	J	7470A	06/02/12	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 06/11/12 14:36 Revised: 06/12/12 12:59

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REPORT OF ANALYSIS

Chris Kramer (SLR)
Jeld-Wen
1800 Blankenship Road, Suite 440
West Linn, OR 97068

June 12, 2012

ESC Sample # : L577797-02

Date Received : May 31, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : MW-1-GW LOW TIDE

Project # : 108.0228.00037

Collected By : Chris Lee
Collection Date : 05/24/12 15:23

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Gasoline Range Organics-NWTPH	35.	33.	100	ug/l	J	NWTPHGX	06/01/12	1
Surrogate Recovery								
a,a,a-Trifluorotoluene(FID)	99.0			% Rec.		NWTPHGX	06/01/12	1
Diesel Range Organics (DRO)	290	33.	100	ug/l		NWTPHDX	06/06/12	1
Residual Range Organics (RRO)	210	82.	250	ug/l	J	NWTPHDX	06/06/12	1
Surrogate Recovery								
o-Terphenyl	110.			% Rec.		NWTPHDX	06/06/12	1
Gasoline	56.	33.	100	ug/l	J	NWTPH-H	06/11/12	1
Mineral Spirits	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Kerosene	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Diesel	99.	33.	100	ug/l	J	NWTPH-H	06/11/12	1
#6 Fuel Oil	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Hydraulic Fluid	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Motor Oil	U	160	500	ug/l		NWTPH-H	06/11/12	1
Surrogate recovery(%)								
o-Terphenyl	82.2			% Rec.		NWTPH-H	06/11/12	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
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Reported: 06/11/12 14:36 Revised: 06/12/12 12:59

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Est. 1970

REPORT OF ANALYSIS

Chris Kramer (SLR)
Jeld-Wen
1800 Blankenship Road, Suite 440
West Linn, OR 97068

June 12, 2012

ESC Sample # : L577797-03

Date Received : May 31, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : MW-1-GW HIGH TIDE

Project # : 108.0228.00037

Collected By : Chris Lee
Collection Date : 05/24/12 09:03

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Gasoline Range Organics-NWTPH	U	33.	100	ug/l		NWTPHGX	06/01/12	1
Surrogate Recovery								
a,a,a-Trifluorotoluene(FID)	99.6			% Rec.		NWTPHGX	06/01/12	1
Diesel Range Organics (DRO)	100	33.	100	ug/l		NWTPHDX	06/06/12	1
Residual Range Organics (RRO)	170	82.	250	ug/l	J	NWTPHDX	06/06/12	1
Surrogate Recovery								
o-Terphenyl	106.			% Rec.		NWTPHDX	06/06/12	1
Gasoline	37.	33.	100	ug/l	J	NWTPH-H	06/11/12	1
Mineral Spirits	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Kerosene	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Diesel	120	33.	100	ug/l		NWTPH-H	06/11/12	1
#6 Fuel Oil	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Hydraulic Fluid	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Motor Oil	290	160	500	ug/l	J	NWTPH-H	06/11/12	1
Surrogate recovery(%)								
o-Terphenyl	64.3			% Rec.		NWTPH-H	06/11/12	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Chris Kramer (SLR)
Jeld-Wen
1800 Blankenship Road, Suite 440
West Linn, OR 97068

June 12, 2012

ESC Sample # : L577797-04

Date Received : May 31, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : MW-5-GW LOW TIDE

Project # : 108.0228.00037

Collected By : Chris Lee
Collection Date : 05/24/12 14:37

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Gasoline Range Organics-NWTPH	120	33.	100	ug/l		NWTPHGX	05/31/12	1
Surrogate Recovery								
a,a,a-Trifluorotoluene(FID)	113.			% Rec.		NWTPHGX	05/31/12	1
Diesel Range Organics (DRO)	470	33.	100	ug/l		NWTPHDX	06/06/12	1
Residual Range Organics (RRO)	290	82.	250	ug/l		NWTPHDX	06/06/12	1
Surrogate Recovery								
o-Terphenyl	109.			% Rec.		NWTPHDX	06/06/12	1
Gasoline	43.	33.	100	ug/l	J	NWTPH-H	06/11/12	1
Mineral Spirits	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Kerosene	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Diesel	140	33.	100	ug/l		NWTPH-H	06/11/12	1
#6 Fuel Oil	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Hydraulic Fluid	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Motor Oil	U	160	500	ug/l		NWTPH-H	06/11/12	1
Surrogate recovery(%)								
o-Terphenyl	73.7			% Rec.		NWTPH-H	06/11/12	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Chris Kramer (SLR)
Jeld-Wen
1800 Blankenship Road, Suite 440
West Linn, OR 97068

June 12, 2012

ESC Sample # : L577797-05

Date Received : May 31, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : MW-5-GW HIGH TIDE

Project # : 108.0228.00037

Collected By : Chris Lee
Collection Date : 05/24/12 08:21

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Gasoline Range Organics-NWTPH	150	33.	100	ug/l		NWTPHGX	05/31/12	1
Surrogate Recovery								
a,a,a-Trifluorotoluene(FID)	113.			% Rec.		NWTPHGX	05/31/12	1
Diesel Range Organics (DRO)	290	33.	100	ug/l		NWTPHDX	06/06/12	1
Residual Range Organics (RRO)	190	82.	250	ug/l	J	NWTPHDX	06/06/12	1
Surrogate Recovery								
o-Terphenyl	111.			% Rec.		NWTPHDX	06/06/12	1
Gasoline	34.	33.	100	ug/l	J	NWTPH-H	06/11/12	1
Mineral Spirits	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Kerosene	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Diesel	130	33.	100	ug/l		NWTPH-H	06/11/12	1
#6 Fuel Oil	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Hydraulic Fluid	U	33.	100	ug/l		NWTPH-H	06/11/12	1
Motor Oil	U	160	500	ug/l		NWTPH-H	06/11/12	1
Surrogate recovery(%)								
o-Terphenyl	83.2			% Rec.		NWTPH-H	06/11/12	1

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REPORT OF ANALYSIS

Chris Kramer (SLR)
Jeld-Wen
1800 Blankenship Road, Suite 440
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June 12, 2012

ESC Sample # : L577797-06

Date Received : May 31, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : MW-6-GW

Project # : 108.0228.00037

Collected By : Chris Lee
Collection Date : 05/24/12 12:46

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Antimony	0.47	0.21	1.0	ug/l	J	6020	06/08/12	1
Antimony,Dissolved	0.87	0.21	1.0	ug/l	J	6020	06/04/12	1
Arsenic	4.8	0.25	1.0	ug/l		6020	06/08/12	1
Arsenic,Dissolved	4.5	0.25	1.0	ug/l		6020	06/04/12	1
Beryllium	U	0.12	1.0	ug/l		6020	06/08/12	1
Beryllium,Dissolved	U	0.12	1.0	ug/l		6020	06/04/12	1
Cadmium	U	0.16	0.50	ug/l		6020	06/08/12	1
Cadmium,Dissolved	U	0.16	0.50	ug/l		6020	06/04/12	1
Chromium	1.6	0.54	2.0	ug/l	J	6020	06/08/12	1
Chromium,Dissolved	1.3	0.54	2.0	ug/l	J	6020	06/04/12	1
Copper	3.0	0.52	2.0	ug/l		6020	06/08/12	1
Copper,Dissolved	3.9	0.52	2.0	ug/l		6020	06/04/12	1
Lead	U	0.24	1.0	ug/l		6020	06/08/12	1
Lead,Dissolved	U	0.24	1.0	ug/l		6020	06/04/12	1
Nickel	2.0	0.35	1.0	ug/l		6020	06/08/12	1
Nickel,Dissolved	2.3	0.35	1.0	ug/l		6020	06/04/12	1
Selenium	0.63	0.38	1.0	ug/l	J	6020	06/08/12	1
Selenium,Dissolved	U	0.38	1.0	ug/l		6020	06/06/12	1
Silver	U	0.31	1.0	ug/l		6020	06/08/12	1
Silver,Dissolved	U	0.31	1.0	ug/l		6020	06/04/12	1
Thallium	U	0.19	1.0	ug/l		6020	06/08/12	1
Thallium,Dissolved	U	0.19	1.0	ug/l		6020	06/04/12	1
Zinc	U	2.6	10.	ug/l		6020	06/08/12	1
Zinc,Dissolved	U	2.6	10.	ug/l		6020	06/04/12	1
Mercury	0.020	0.015	0.20	ug/l	J	7470A	06/01/12	1
Mercury,Dissolved	0.020	0.015	0.20	ug/l	J	7470A	06/02/12	1

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REPORT OF ANALYSIS

Chris Kramer (SLR)
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1800 Blankenship Road, Suite 440
West Linn, OR 97068

June 12, 2012

ESC Sample # : L577797-07

Date Received : May 31, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : TRIP BLANK

Project # : 108.0228.00037

Collected By : Chris Lee
Collection Date : 05/24/12 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	2.3	1.0	25.	ug/l	JJ3	8260B	06/02/12	1
Benzene	U	0.090	0.50	ug/l		8260B	06/02/12	1
Bromochloromethane	U	0.15	0.50	ug/l		8260B	06/02/12	1
Bromodichloromethane	U	0.080	0.50	ug/l		8260B	06/02/12	1
Bromoform	U	0.19	0.50	ug/l		8260B	06/02/12	1
Bromomethane	U	0.16	0.50	ug/l		8260B	06/02/12	1
2-Butanone (MEK)	U	1.3	2.5	ug/l	J3	8260B	06/02/12	1
Carbon disulfide	U	0.10	0.50	ug/l		8260B	06/02/12	1
Carbon tetrachloride	U	0.16	0.50	ug/l		8260B	06/02/12	1
Chlorobenzene	U	0.14	0.50	ug/l		8260B	06/02/12	1
Chloroethane	U	0.14	0.50	ug/l		8260B	06/02/12	1
Chloroform	U	0.086	0.50	ug/l		8260B	06/02/12	1
Chloromethane	U	0.15	0.50	ug/l		8260B	06/02/12	1
1,2-Dibromo-3-Chloropropane	U	0.32	1.0	ug/l		8260B	06/02/12	1
Chlorodibromomethane	U	0.13	0.50	ug/l		8260B	06/02/12	1
1,2-Dibromoethane	U	0.19	0.50	ug/l		8260B	06/02/12	1
1,2-Dichlorobenzene	U	0.10	0.50	ug/l		8260B	06/02/12	1
1,3-Dichlorobenzene	U	0.13	0.50	ug/l		8260B	06/02/12	1
1,4-Dichlorobenzene	U	0.12	0.50	ug/l		8260B	06/02/12	1
Dichlorodifluoromethane	U	0.13	0.50	ug/l		8260B	06/02/12	1
1,1-Dichloroethane	U	0.11	0.50	ug/l		8260B	06/02/12	1
1,2-Dichloroethane	U	0.11	0.50	ug/l		8260B	06/02/12	1
1,1-Dichloroethene	U	0.19	0.50	ug/l		8260B	06/02/12	1
cis-1,2-Dichloroethene	U	0.093	0.50	ug/l		8260B	06/02/12	1
trans-1,2-Dichloroethene	U	0.15	0.50	ug/l		8260B	06/02/12	1
1,2-Dichloropropane	U	0.19	0.50	ug/l		8260B	06/02/12	1
cis-1,3-Dichloropropene	U	0.098	0.50	ug/l		8260B	06/02/12	1
trans-1,3-Dichloropropene	U	0.22	0.50	ug/l		8260B	06/05/12	1
Ethylbenzene	U	0.16	0.50	ug/l		8260B	06/02/12	1
2-Hexanone	U	0.76	2.5	ug/l		8260B	06/02/12	1
Isopropylbenzene	U	0.13	0.50	ug/l		8260B	06/02/12	1
4-Methyl-2-pentanone (MIBK)	U	0.82	2.5	ug/l		8260B	06/02/12	1
Methyl tert-butyl ether	U	0.10	0.50	ug/l		8260B	06/02/12	1
n-Propylbenzene	U	0.16	0.50	ug/l		8260B	06/02/12	1
Methylene Chloride	U	0.11	2.5	ug/l		8260B	06/02/12	1
Styrene	U	0.12	0.50	ug/l		8260B	06/02/12	1
1,1,2,2-Tetrachloroethane	U	0.17	0.50	ug/l		8260B	06/02/12	1
Tetrachloroethene	U	0.20	0.50	ug/l		8260B	06/02/12	1
Toluene	U	0.10	0.50	ug/l		8260B	06/02/12	1
1,1,2-Trichlorotrifluoroethane	U	0.16	0.50	ug/l		8260B	06/02/12	1
1,2,3-Trichlorobenzene	U	0.16	0.50	ug/l		8260B	06/02/12	1
1,2,4-Trichlorobenzene	U	0.15	0.50	ug/l		8260B	06/02/12	1

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L577797-07 (V8260LL) - hit confirmed

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REPORT OF ANALYSIS

Chris Kramer (SLR)
Jeld-Wen
1800 Blankenship Road, Suite 440
West Linn, OR 97068

June 12, 2012

ESC Sample # : L577797-07

Date Received : May 31, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : TRIP BLANK

Project # : 108.0228.00037

Collected By : Chris Lee
Collection Date : 05/24/12 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,1,1-Trichloroethane	U	0.094	0.50	ug/l		8260B	06/02/12	1
1,1,2-Trichloroethane	U	0.19	0.50	ug/l		8260B	06/02/12	1
Trichloroethene	U	0.15	0.50	ug/l		8260B	06/02/12	1
Trichlorofluoromethane	U	0.13	0.50	ug/l		8260B	06/02/12	1
Vinyl chloride	U	0.12	0.50	ug/l		8260B	06/02/12	1
Xylenes, Total	U	0.32	1.5	ug/l		8260B	06/02/12	1
Cyclohexane	U	0.39	1.0	ug/l		8260B	06/05/12	1
1,4-Dioxane	U	36.	100	ug/l		8260B	06/05/12	1
Methyl Acetate	U	4.3	20.	ug/l		8260B	06/05/12	1
Methyl Cyclohexane	U	0.38	1.0	ug/l		8260B	06/05/12	1
Surrogate Recovery								
Toluene-d8	107.			% Rec.		8260B	06/02/12	1
Dibromofluoromethane	101.			% Rec.		8260B	06/02/12	1
4-Bromofluorobenzene	107.			% Rec.		8260B	06/02/12	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
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Reported: 06/11/12 14:36 Revised: 06/12/12 12:59
L577797-07 (V8260LL) - hit confirmed

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L577797-01	WG595170	SAMP	Mercury,Dissolved	R2194376	J
	WG595894	SAMP	Copper	R2195274	J
	WG595893	SAMP	Copper,Dissolved	R2196854	J
	WG595894	SAMP	Lead	R2195274	J
L577797-02	WG596058	SAMP	Gasoline	R2205093	J
	WG596058	SAMP	Diesel	R2205093	J
	WG596059	SAMP	Residual Range Organics (RRO)	R2199754	J
	WG595636	SAMP	Gasoline Range Organics-NWTPH	R2194380	J
L577797-03	WG596058	SAMP	Gasoline	R2205093	J
	WG596058	SAMP	Motor Oil	R2205093	J
	WG596059	SAMP	Residual Range Organics (RRO)	R2199754	J
L577797-04	WG596058	SAMP	Gasoline	R2205093	J
L577797-05	WG596058	SAMP	Gasoline	R2205093	J
	WG596059	SAMP	Residual Range Organics (RRO)	R2199754	J
L577797-06	WG595586	SAMP	Mercury	R2193277	J
	WG595170	SAMP	Mercury,Dissolved	R2194376	J
	WG596112	SAMP	Antimony	R2203454	J
	WG595893	SAMP	Antimony,Dissolved	R2196854	J
	WG596112	SAMP	Chromium	R2203454	J
	WG595893	SAMP	Chromium,Dissolved	R2196854	J
	WG596112	SAMP	Selenium	R2203454	J
L577797-07	WG595755	SAMP	Acetone	R2194855	JJ3
	WG595755	SAMP	2-Butanone (MEK)	R2194855	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
06/12/12 at 12:59:32

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L577797-01 Account: JELWENOR Received: 05/31/12 09:00 Due Date: 06/07/12 00:00 RPT Date: 06/11/12 14:36
Log ALL metals in GW by 6020. Diss Metals are Field filtered per Bottle. Ph adjusted at 1625
for Diss Metals on 5/31
Sample: L577797-02 Account: JELWENOR Received: 05/31/12 09:00 Due Date: 06/07/12 00:00 RPT Date: 06/11/12 14:36

Sample: L577797-03 Account: JELWENOR Received: 05/31/12 09:00 Due Date: 06/07/12 00:00 RPT Date: 06/11/12 14:36

Sample: L577797-04 Account: JELWENOR Received: 05/31/12 09:00 Due Date: 06/07/12 00:00 RPT Date: 06/11/12 14:36

Sample: L577797-05 Account: JELWENOR Received: 05/31/12 09:00 Due Date: 06/07/12 00:00 RPT Date: 06/11/12 14:36

Sample: L577797-06 Account: JELWENOR Received: 05/31/12 09:00 Due Date: 06/07/12 00:00 RPT Date: 06/11/12 14:36
Log ALL metals in GW by 6020. Diss Metals are Field filtered per Bottle. Ph adjusted at 1625
for Diss Metals on 5/31
Sample: L577797-07 Account: JELWENOR Received: 05/31/12 09:00 Due Date: 06/07/12 00:00 RPT Date: 06/11/12 14:36
V8260LL has AP9 compounds and LL compounds.

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West Linn, OR 97068

Quality Assurance Report
Level II

L577797

June 12, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Gasoline Range Organics-NWTPH	< .1	mg/l			WG595510	05/31/12 19:49
a,a,a-Trifluorotoluene(FID)		% Rec.	113.2	62-128	WG595510	05/31/12 19:49
Mercury	< .0002	mg/l			WG595586	06/01/12 11:52
Mercury,Dissolved	< .0002	mg/l			WG595170	06/02/12 10:17
Gasoline Range Organics-NWTPH	< .1	mg/l			WG595636	06/01/12 16:32
a,a,a-Trifluorotoluene(FID)		% Rec.	99.40	62-128	WG595636	06/01/12 16:32
1,1,1-Trichloroethane	< .0005	mg/l			WG595755	06/02/12 00:26
1,1,2,2-Tetrachloroethane	< .0005	mg/l			WG595755	06/02/12 00:26
1,1,2-Trichloroethane	< .0005	mg/l			WG595755	06/02/12 00:26
1,1,2-Trichlorotrifluoroethane	< .0005	mg/l			WG595755	06/02/12 00:26
1,1-Dichloroethane	< .0005	mg/l			WG595755	06/02/12 00:26
1,1-Dichloroethene	< .0005	mg/l			WG595755	06/02/12 00:26
1,2,3-Trichlorobenzene	< .0005	mg/l			WG595755	06/02/12 00:26
1,2,4-Trichlorobenzene	< .0005	mg/l			WG595755	06/02/12 00:26
1,2-Dibromo-3-Chloropropane	< .001	mg/l			WG595755	06/02/12 00:26
1,2-Dibromoethane	< .0005	mg/l			WG595755	06/02/12 00:26
1,2-Dichlorobenzene	< .0005	mg/l			WG595755	06/02/12 00:26
1,2-Dichloroethane	< .0005	mg/l			WG595755	06/02/12 00:26
1,2-Dichloropropane	< .0005	mg/l			WG595755	06/02/12 00:26
1,3-Dichlorobenzene	< .0005	mg/l			WG595755	06/02/12 00:26
1,4-Dichlorobenzene	< .0005	mg/l			WG595755	06/02/12 00:26
2-Butanone (MEK)	< .0025	mg/l			WG595755	06/02/12 00:26
2-Hexanone	< .0025	mg/l			WG595755	06/02/12 00:26
4-Methyl-2-pentanone (MIBK)	< .0025	mg/l			WG595755	06/02/12 00:26
Acetone	< .025	mg/l			WG595755	06/02/12 00:26
Benzene	< .0005	mg/l			WG595755	06/02/12 00:26
Bromochloromethane	< .0005	mg/l			WG595755	06/02/12 00:26
Bromodichloromethane	< .0005	mg/l			WG595755	06/02/12 00:26
Bromoform	< .0005	mg/l			WG595755	06/02/12 00:26
Bromomethane	< .0005	mg/l			WG595755	06/02/12 00:26
Carbon disulfide	< .0005	mg/l			WG595755	06/02/12 00:26
Carbon tetrachloride	< .0005	mg/l			WG595755	06/02/12 00:26
Chlorobenzene	< .0005	mg/l			WG595755	06/02/12 00:26
Chlorodibromomethane	< .0005	mg/l			WG595755	06/02/12 00:26
Chloroethane	< .0005	mg/l			WG595755	06/02/12 00:26
Chloroform	< .0005	mg/l			WG595755	06/02/12 00:26
Chloromethane	< .0005	mg/l			WG595755	06/02/12 00:26
cis-1,2-Dichloroethene	< .0005	mg/l			WG595755	06/02/12 00:26
cis-1,3-Dichloropropene	< .0005	mg/l			WG595755	06/02/12 00:26
Dichlorodifluoromethane	< .0005	mg/l			WG595755	06/02/12 00:26
Ethylbenzene	< .0005	mg/l			WG595755	06/02/12 00:26
Isopropylbenzene	< .0005	mg/l			WG595755	06/02/12 00:26
Methyl tert-butyl ether	< .0005	mg/l			WG595755	06/02/12 00:26
Methylene Chloride	< .0025	mg/l			WG595755	06/02/12 00:26
n-Propylbenzene	< .0005	mg/l			WG595755	06/02/12 00:26
Styrene	< .0005	mg/l			WG595755	06/02/12 00:26
Tetrachloroethene	< .0005	mg/l			WG595755	06/02/12 00:26
Toluene	< .0005	mg/l			WG595755	06/02/12 00:26
trans-1,2-Dichloroethene	< .0005	mg/l			WG595755	06/02/12 00:26
Trichloroethene	< .0005	mg/l			WG595755	06/02/12 00:26
Trichlorofluoromethane	< .0005	mg/l			WG595755	06/02/12 00:26

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Quality Assurance Report
Level II

L577797

June 12, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Vinyl chloride	< .0005	mg/l			WG595755	06/02/12 00:26
Xylenes, Total	< .0015	mg/l			WG595755	06/02/12 00:26
4-Bromofluorobenzene		% Rec.	108.1	82-120	WG595755	06/02/12 00:26
Dibromofluoromethane		% Rec.	101.7	82-126	WG595755	06/02/12 00:26
Toluene-d8		% Rec.	105.6	92-112	WG595755	06/02/12 00:26
Antimony	< .001	mg/l			WG595894	06/04/12 02:44
Arsenic	< .001	mg/l			WG595894	06/04/12 02:44
Beryllium	< .001	mg/l			WG595894	06/04/12 02:44
Cadmium	< .0005	mg/l			WG595894	06/04/12 02:44
Chromium	< .002	mg/l			WG595894	06/04/12 02:44
Copper	< .002	mg/l			WG595894	06/04/12 02:44
Lead	< .001	mg/l			WG595894	06/04/12 02:44
Nickel	< .001	mg/l			WG595894	06/04/12 02:44
Selenium	< .001	mg/l			WG595894	06/04/12 02:44
Silver	< .001	mg/l			WG595894	06/04/12 02:44
Thallium	< .001	mg/l			WG595894	06/04/12 02:44
Zinc	< .01	mg/l			WG595894	06/04/12 02:44
Antimony,Dissolved	< .001	mg/l			WG595893	06/04/12 12:42
Arsenic,Dissolved	< .001	mg/l			WG595893	06/04/12 12:42
Beryllium,Dissolved	< .001	mg/l			WG595893	06/04/12 12:42
Cadmium,Dissolved	< .0005	mg/l			WG595893	06/04/12 12:42
Chromium,Dissolved	< .002	mg/l			WG595893	06/04/12 12:42
Copper,Dissolved	< .002	mg/l			WG595893	06/04/12 12:42
Lead,Dissolved	< .001	mg/l			WG595893	06/04/12 12:42
Nickel,Dissolved	< .001	mg/l			WG595893	06/04/12 12:42
Silver,Dissolved	< .001	mg/l			WG595893	06/04/12 12:42
Thallium,Dissolved	< .001	mg/l			WG595893	06/04/12 12:42
Zinc,Dissolved	< .01	mg/l			WG595893	06/04/12 12:42
Cyclohexane	< .001	mg/l			WG596109	06/04/12 17:28
Methyl Acetate	< .02	mg/l			WG596109	06/04/12 17:28
Methyl Cyclohexane	< .001	mg/l			WG596109	06/04/12 17:28
trans-1,3-Dichloropropene	< .001	mg/l			WG596109	06/04/12 17:28
4-Bromofluorobenzene		% Rec.	102.0	82-120	WG596109	06/04/12 17:28
Dibromofluoromethane		% Rec.	99.26	82-126	WG596109	06/04/12 17:28
Toluene-d8		% Rec.	100.9	92-112	WG596109	06/04/12 17:28
Selenium,Dissolved	< .001	mg/l			WG596117	06/06/12 12:39
Diesel Range Organics (DRO)	< .1	ppm			WG596059	06/06/12 14:27
Residual Range Organics (RRO)	< .25	ppm			WG596059	06/06/12 14:27
o-Terphenyl		% Rec.	118.2	50-150	WG596059	06/06/12 14:27
Antimony	< .001	mg/l			WG596112	06/08/12 08:32
Arsenic	< .001	mg/l			WG596112	06/08/12 08:32
Beryllium	< .001	mg/l			WG596112	06/08/12 08:32
Cadmium	< .0005	mg/l			WG596112	06/08/12 08:32
Chromium	< .002	mg/l			WG596112	06/08/12 08:32
Copper	< .002	mg/l			WG596112	06/08/12 08:32
Lead	< .001	mg/l			WG596112	06/08/12 08:32
Nickel	< .001	mg/l			WG596112	06/08/12 08:32

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Quality Assurance Report
Level II

L577797

June 12, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Selenium	< .001	mg/l			WG596112	06/08/12 08:32
Silver	< .001	mg/l			WG596112	06/08/12 08:32
Thallium	< .001	mg/l			WG596112	06/08/12 08:32
Zinc	< .01	mg/l			WG596112	06/08/12 08:32
#6 Fuel Oil	< .1	mg/l			WG596058	06/11/12 12:21
Diesel	< .1	mg/l			WG596058	06/11/12 12:21
Gasoline	< .1	mg/l			WG596058	06/11/12 12:21
Hydraulic Fluid	< .1	mg/l			WG596058	06/11/12 12:21
Kerosene	< .1	mg/l			WG596058	06/11/12 12:21
Mineral Spirits	< .1	mg/l			WG596058	06/11/12 12:21
Motor Oil	< .25	mg/l			WG596058	06/11/12 12:21
o-Terphenyl		% Rec.	66.71	50-150	WG596058	06/11/12 12:21

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Mercury	mg/l	0	0	0	20	L577793-04	WG595586
Mercury,Dissolved	mg/l	0	0	0	20	L577243-05	WG595170
Antimony	mg/l	0	0.000580	NA	20	L577357-02	WG595894
Arsenic	mg/l	0.00390	0.00349	10.6	20	L577357-02	WG595894
Beryllium	mg/l	0	0	0	20	L577357-02	WG595894
Cadmium	mg/l	0	0	0	20	L577357-02	WG595894
Chromium	mg/l	0.00600	0.00611	0.987	20	L577357-02	WG595894
Copper	mg/l	0.00760	0.00723	4.33	20	L577357-02	WG595894
Lead	mg/l	0.00310	0.00292	6.30	20	L577357-02	WG595894
Nickel	mg/l	0.0170	0.0183	5.04	20	L577357-02	WG595894
Selenium	mg/l	0.0220	0.0214	2.76	20	L577357-02	WG595894
Silver	mg/l	0	0.000180	NA	20	L577357-02	WG595894
Thallium	mg/l	0	0.0000400	NA	20	L577357-02	WG595894
Zinc	mg/l	0.0220	0.0192	12.7	20	L577357-02	WG595894
Antimony,Dissolved	mg/l	0	0	0	20	L577358-06	WG595893
Arsenic,Dissolved	mg/l	0.00610	0	NA	20	L577358-06	WG595893
Beryllium,Dissolved	mg/l	0	0	0	20	L577358-06	WG595893
Cadmium,Dissolved	mg/l	0	0	0	20	L577358-06	WG595893
Chromium,Dissolved	mg/l	0.0190	0	NA	20	L577358-06	WG595893
Copper,Dissolved	mg/l	0	0	0	20	L577358-06	WG595893
Lead,Dissolved	mg/l	0	0	0	20	L577358-06	WG595893
Nickel,Dissolved	mg/l	0.0560	0	NA	20	L577358-06	WG595893
Silver,Dissolved	mg/l	0	0	0	20	L577358-06	WG595893
Thallium,Dissolved	mg/l	0	0	0	20	L577358-06	WG595893
Zinc,Dissolved	mg/l	0	0	0	20	L577358-06	WG595893
Selenium,Dissolved	mg/l	0.0190	0.0192	0.519	20	L577940-16	WG596117
Antimony	mg/l	0	0.000190	NA	20	L577940-16	WG596112
Arsenic	mg/l	0.0840	0.0820	2.53	20	L577940-16	WG596112
Beryllium	mg/l	0	0	0	20	L577940-16	WG596112
Cadmium	mg/l	0	0	0	20	L577940-16	WG596112
Chromium	mg/l	0.00200	0.00226	10.7	20	L577940-16	WG596112

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Level II

L577797

June 12, 2012

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
			Duplicate				
Copper	mg/l	0.00260	0.00290	10.9	20	L577940-16	WG596112
Lead	mg/l	0.00160	0.00162	4.42	20	L577940-16	WG596112
Nickel	mg/l	0.0100	0.0106	3.85	20	L577940-16	WG596112
Selenium	mg/l	0.0120	0.0111	11.9	20	L577940-16	WG596112
Silver	mg/l	0	0.000640	NA	20	L577940-16	WG596112
Thallium	mg/l	0	0	0	20	L577940-16	WG596112
Zinc	mg/l	0.0360	0.0393	7.39	20	L577940-16	WG596112

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
			Laboratory Control Sample			
Gasoline Range Organics-NWTPH	mg/l	5.5	6.05	110.	70-124	WG595510
a,a,a-Trifluorotoluene(FID)				109.8	62-128	WG595510
Mercury	mg/l	.003	0.00279	93.0	85-115	WG595586
Mercury,Dissolved	mg/l	.003	0.00303	101.	85-115	WG595170
Gasoline Range Organics-NWTPH	mg/l	5.5	6.55	119.	70-124	WG595636
a,a,a-Trifluorotoluene(FID)				106.0	62-128	WG595636
1,1,1-Trichloroethane	mg/l	.025	0.0244	97.6	71-126	WG595755
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0238	95.4	78-130	WG595755
1,1,2-Trichloroethane	mg/l	.025	0.0251	100.	81-121	WG595755
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0245	97.9	53-143	WG595755
1,1-Dichloroethane	mg/l	.025	0.0252	101.	73-123	WG595755
1,1-Dichloroethene	mg/l	.025	0.0235	94.2	54-134	WG595755
1,2,3-Trichlorobenzene	mg/l	.025	0.0202	80.9	77-130	WG595755
1,2,4-Trichlorobenzene	mg/l	.025	0.0208	83.3	76-127	WG595755
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0199	79.5	55-142	WG595755
1,2-Dibromoethane	mg/l	.025	0.0241	96.4	78-124	WG595755
1,2-Dichlorobenzene	mg/l	.025	0.0230	92.0	82-121	WG595755
1,2-Dichloroethane	mg/l	.025	0.0249	99.7	69-128	WG595755
1,2-Dichloropropane	mg/l	.025	0.0261	105.	77-121	WG595755
1,3-Dichlorobenzene	mg/l	.025	0.0237	94.8	77-127	WG595755
1,4-Dichlorobenzene	mg/l	.025	0.0229	91.8	79-117	WG595755
2-Butanone (MEK)	mg/l	.125	0.122	97.4	58-144	WG595755
2-Hexanone	mg/l	.125	0.121	96.4	62-144	WG595755
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.124	99.4	58-147	WG595755
Acetone	mg/l	.125	0.0934	74.7	49-153	WG595755
Benzene	mg/l	.025	0.0254	101.	72-119	WG595755
Bromochloromethane	mg/l	.025	0.0257	103.	79-124	WG595755
Bromodichloromethane	mg/l	.025	0.0264	106.	75-127	WG595755
Bromoform	mg/l	.025	0.0235	94.2	61-136	WG595755
Bromomethane	mg/l	.025	0.0237	94.7	42-172	WG595755
Carbon disulfide	mg/l	.025	0.0285	114.	19-150	WG595755
Carbon tetrachloride	mg/l	.025	0.0237	94.9	63-129	WG595755
Chlorobenzene	mg/l	.025	0.0252	101.	78-123	WG595755
Chlorodibromomethane	mg/l	.025	0.0247	99.0	73-128	WG595755
Chloroethane	mg/l	.025	0.0241	96.2	52-164	WG595755
Chloroform	mg/l	.025	0.0250	100.	76-122	WG595755
Chloromethane	mg/l	.025	0.0250	100.	50-141	WG595755
cis-1,2-Dichloroethene	mg/l	.025	0.0250	100.	75-121	WG595755
cis-1,3-Dichloropropene	mg/l	.025	0.0268	107.	74-124	WG595755
Dichlorodifluoromethane	mg/l	.025	0.0273	109.	33-123	WG595755

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Quality Assurance Report
Level II

L577797

June 12, 2012

		Laboratory Control Sample				
Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Ethylbenzene	mg/l	.025	0.0257	103.	77-124	WG595755
Isopropylbenzene	mg/l	.025	0.0254	102.	74-126	WG595755
Methyl tert-butyl ether	mg/l	.025	0.0255	102.	67-127	WG595755
Methylene Chloride	mg/l	.025	0.0284	113.	67-122	WG595755
n-Propylbenzene	mg/l	.025	0.0243	97.1	77-125	WG595755
Styrene	mg/l	.025	0.0243	97.4	69-145	WG595755
Tetrachloroethene	mg/l	.025	0.0239	95.7	69-131	WG595755
Toluene	mg/l	.025	0.0264	106.	75-114	WG595755
trans-1,2-Dichloroethene	mg/l	.025	0.0242	96.9	63-127	WG595755
Trichloroethene	mg/l	.025	0.0253	101.	75-121	WG595755
Trichlorofluoromethane	mg/l	.025	0.0231	92.3	53-161	WG595755
Vinyl chloride	mg/l	.025	0.0240	95.8	55-142	WG595755
Xylenes, Total	mg/l	.075	0.0757	101.	77-123	WG595755
4-Bromofluorobenzene				105.0	82-120	WG595755
Dibromofluoromethane				101.1	82-126	WG595755
Toluene-d8				108.8	92-112	WG595755
Antimony	mg/l	.0567	0.0581	102.	85-115	WG595894
Arsenic	mg/l	.0567	0.0581	102.	85-115	WG595894
Beryllium	mg/l	.0567	0.0572	101.	85-115	WG595894
Cadmium	mg/l	.0567	0.0574	101.	85-115	WG595894
Chromium	mg/l	.0567	0.0595	105.	85-115	WG595894
Copper	mg/l	.0567	0.0604	107.	85-115	WG595894
Lead	mg/l	.0567	0.0636	112.	85-115	WG595894
Nickel	mg/l	.0567	0.0602	106.	85-115	WG595894
Selenium	mg/l	.0567	0.0572	101.	85-115	WG595894
Silver	mg/l	.0567	0.0598	105.	85-115	WG595894
Thallium	mg/l	.0567	0.0636	112.	85-115	WG595894
Zinc	mg/l	.0567	0.0599	106.	85-115	WG595894
Antimony,Dissolved	mg/l	.0567	0.0633	112.	85-115	WG595893
Arsenic,Dissolved	mg/l	.0567	0.0604	107.	85-115	WG595893
Beryllium,Dissolved	mg/l	.0567	0.0609	107.	85-115	WG595893
Cadmium,Dissolved	mg/l	.0567	0.0602	106.	85-115	WG595893
Chromium,Dissolved	mg/l	.0567	0.0606	107.	85-115	WG595893
Copper,Dissolved	mg/l	.0567	0.0611	108.	85-115	WG595893
Lead,Dissolved	mg/l	.0567	0.0639	113.	85-115	WG595893
Nickel,Dissolved	mg/l	.0567	0.0613	108.	85-115	WG595893
Silver,Dissolved	mg/l	.0567	0.0612	108.	85-115	WG595893
Thallium,Dissolved	mg/l	.0567	0.0620	109.	85-115	WG595893
Zinc,Dissolved	mg/l	.0567	0.0652	115.	85-115	WG595893
trans-1,3-Dichloropropene	mg/l	.025	0.0229	91.7	69-124	WG596109
4-Bromofluorobenzene				100.1	82-120	WG596109
Dibromofluoromethane				99.85	82-126	WG596109
Toluene-d8				101.7	92-112	WG596109
Selenium,Dissolved	mg/l	.0567	0.0487	85.9	85-115	WG596117
Diesel Range Organics (DRO)	mg/l	.75	0.882	118.	50-150	WG596059
Residual Range Organics (RRO)	mg/l	.75	0.910	121.	50-150	WG596059
o-Terphenyl				118.8	50-150	WG596059

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West Linn, OR 97068

Quality Assurance Report
Level II

L577797

June 12, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Antimony	mg/l	.0567	0.0536	94.5	85-115	WG596112
Arsenic	mg/l	.0567	0.0528	93.1	85-115	WG596112
Beryllium	mg/l	.0567	0.0524	92.4	85-115	WG596112
Cadmium	mg/l	.0567	0.0513	90.5	85-115	WG596112
Chromium	mg/l	.0567	0.0520	91.7	85-115	WG596112
Copper	mg/l	.0567	0.0530	93.5	85-115	WG596112
Lead	mg/l	.0567	0.0532	93.8	85-115	WG596112
Nickel	mg/l	.0567	0.0522	92.1	85-115	WG596112
Selenium	mg/l	.0567	0.0519	91.5	85-115	WG596112
Silver	mg/l	.0567	0.0518	91.4	85-115	WG596112
Thallium	mg/l	.0567	0.0527	92.9	85-115	WG596112
Zinc	mg/l	.0567	0.0567	100.	85-115	WG596112
Diesel	mg/l	.75	0.499	66.6	50-150	WG596058
Motor Oil	mg/l	.75	0.646	86.2	50-150	WG596058
o-Terphenyl				60.52	50-150	WG596058

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Gasoline Range Organics-NWTPH	mg/l	6.10	6.05	111.	70-124	0.890	20	WG595510
a,a,a-Trifluorotoluene(FID)				109.5	62-128			WG595510
Gasoline Range Organics-NWTPH	mg/l	6.62	6.55	120.	70-124	1.01	20	WG595636
a,a,a-Trifluorotoluene(FID)				105.8	62-128			WG595636
1,1,1-Trichloroethane	mg/l	0.0242	0.0244	97.0	71-126	0.870	20	WG595755
1,1,2,2-Tetrachloroethane	mg/l	0.0240	0.0238	96.0	78-130	0.680	20	WG595755
1,1,2-Trichloroethane	mg/l	0.0246	0.0251	98.0	81-121	1.89	20	WG595755
1,1,2-Trichlorotrifluoroethane	mg/l	0.0253	0.0245	101.	53-143	3.23	20	WG595755
1,1-Dichloroethane	mg/l	0.0250	0.0252	100.	73-123	0.790	20	WG595755
1,1-Dichloroethene	mg/l	0.0242	0.0235	97.0	54-134	2.83	20	WG595755
1,2,3-Trichlorobenzene	mg/l	0.0203	0.0202	81.0	77-130	0.250	20	WG595755
1,2,4-Trichlorobenzene	mg/l	0.0204	0.0208	81.0	76-127	2.21	20	WG595755
1,2-Dibromo-3-Chloropropane	mg/l	0.0226	0.0199	90.0	55-142	12.6	20	WG595755
1,2-Dibromoethane	mg/l	0.0237	0.0241	95.0	78-124	1.52	20	WG595755
1,2-Dichlorobenzene	mg/l	0.0226	0.0230	90.0	82-121	1.88	20	WG595755
1,2-Dichloroethane	mg/l	0.0254	0.0249	102.	69-128	1.94	20	WG595755
1,2-Dichloropropane	mg/l	0.0252	0.0261	101.	77-121	3.45	20	WG595755
1,3-Dichlorobenzene	mg/l	0.0223	0.0237	89.0	77-127	5.91	20	WG595755
1,4-Dichlorobenzene	mg/l	0.0224	0.0229	90.0	79-117	2.38	20	WG595755
2-Butanone (MEK)	mg/l	0.155	0.122	124.	58-144	24.3*	20	WG595755
2-Hexanone	mg/l	0.124	0.121	99.0	62-144	2.62	20	WG595755
4-Methyl-2-pentanone (MIBK)	mg/l	0.133	0.124	107.	58-147	7.13	20	WG595755
Acetone	mg/l	0.124	0.0934	100.	49-153	28.6*	20	WG595755
Benzene	mg/l	0.0253	0.0254	101.	72-119	0.250	20	WG595755
Bromochloromethane	mg/l	0.0262	0.0257	105.	79-124	2.22	20	WG595755
Bromodichloromethane	mg/l	0.0256	0.0264	102.	75-127	3.27	20	WG595755
Bromoform	mg/l	0.0236	0.0235	94.0	61-136	0.240	20	WG595755
Bromomethane	mg/l	0.0239	0.0237	96.0	42-172	0.830	20	WG595755
Carbon disulfide	mg/l	0.0283	0.0285	113.	19-150	0.740	20	WG595755
Carbon tetrachloride	mg/l	0.0243	0.0237	97.0	63-129	2.53	20	WG595755
Chlorobenzene	mg/l	0.0236	0.0252	94.0	78-123	6.74	20	WG595755
Chlorodibromomethane	mg/l	0.0237	0.0247	95.0	73-128	4.48	20	WG595755
Chloroethane	mg/l	0.0238	0.0241	95.0	52-164	0.990	20	WG595755
Chloroform	mg/l	0.0250	0.0250	100.	76-122	0.240	20	WG595755

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Quality Assurance Report
Level II

L577797

June 12, 2012

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chloromethane	mg/l	0.0250	0.0250	100.	50-141	0.0500	20	WG595755
cis-1,2-Dichloroethene	mg/l	0.0257	0.0250	103.	75-121	2.74	20	WG595755
cis-1,3-Dichloropropene	mg/l	0.0261	0.0268	104.	74-124	2.66	20	WG595755
Dichlorodifluoromethane	mg/l	0.0274	0.0273	110.	33-123	0.380	20	WG595755
Ethylbenzene	mg/l	0.0245	0.0257	98.0	77-124	5.02	20	WG595755
Isopropylbenzene	mg/l	0.0242	0.0254	97.0	74-126	5.04	20	WG595755
Methyl tert-butyl ether	mg/l	0.0270	0.0255	108.	67-127	5.82	20	WG595755
Methylene Chloride	mg/l	0.0278	0.0284	111.	67-122	1.93	20	WG595755
n-Propylbenzene	mg/l	0.0229	0.0243	91.0	77-125	5.95	20	WG595755
Styrene	mg/l	0.0234	0.0243	94.0	69-145	3.81	20	WG595755
Tetrachloroethene	mg/l	0.0226	0.0239	90.0	69-131	5.74	20	WG595755
Toluene	mg/l	0.0257	0.0264	103.	75-114	2.91	20	WG595755
trans-1,2-Dichloroethene	mg/l	0.0240	0.0242	96.0	63-127	0.870	20	WG595755
Trichloroethene	mg/l	0.0245	0.0253	98.0	75-121	3.00	20	WG595755
Trichlorofluoromethane	mg/l	0.0235	0.0231	94.0	53-161	1.82	20	WG595755
Vinyl chloride	mg/l	0.0239	0.0240	96.0	55-142	0.150	20	WG595755
Xylenes, Total	mg/l	0.0701	0.0757	93.0	77-123	7.70	20	WG595755
4-Bromofluorobenzene				101.3	82-120			WG595755
Dibromofluoromethane				104.6	82-126			WG595755
Toluene-d8				107.4	92-112			WG595755
trans-1,3-Dichloropropene	mg/l	0.0227	0.0229	91.0	69-124	0.820	20	WG596109
4-Bromofluorobenzene				100.1	82-120			WG596109
Dibromofluoromethane				98.63	82-126			WG596109
Toluene-d8				101.1	92-112			WG596109
Diesel Range Organics (DRO)	mg/l	0.741	0.882	99.0	50-150	17.3	20	WG596059
Residual Range Organics (RRO)	mg/l	0.831	0.910	111.	50-150	9.00	20	WG596059
o-Terphenyl				116.9	50-150			WG596059
Diesel	mg/l	0.448	0.499	60.0	50-150	10.9	20	WG596058
Motor Oil	mg/l	0.584	0.646	78.0	50-150	10.1	25	WG596058
o-Terphenyl				57.23	50-150			WG596058

		Matrix Spike						
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Gasoline Range Organics-NWTPH	mg/l	6.46	0.0123	5.5	117.	58-122	L577671-01	WG595510
a,a,a-Trifluorotoluene(FID)					110.1	62-128		WG595510
Mercury	mg/l	0.00277	0	.003	92.3	70-130	L577793-04	WG595586
Mercury,Dissolved	mg/l	0.00282	0	.003	94.0	70-130	L577243-05	WG595170
Gasoline Range Organics-NWTPH	mg/l	6.39	0	5.5	116.	58-122	L577797-03	WG595636
a,a,a-Trifluorotoluene(FID)					105.0	62-128		WG595636
1,1,1-Trichloroethane	mg/l	0.0250	0	.025	100.	58-137	L577879-01	WG595755
1,1,2,2-Tetrachloroethane	mg/l	0.0205	0	.025	81.8	64-149	L577879-01	WG595755
1,1,2-Trichloroethane	mg/l	0.0217	0	.025	87.0	73-128	L577879-01	WG595755
1,1,2-Trichlorotrifluoroethane	mg/l	0.0271	0	.025	108.	46-159	L577879-01	WG595755
1,1-Dichloroethane	mg/l	0.0242	0	.025	96.8	58-133	L577879-01	WG595755

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Quality Assurance Report
Level II

L577797

June 12, 2012

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1-Dichloroethene	mg/l	0.0255	0	.025	102.	32-152	L577879-01	WG595755
1,2,3-Trichlorobenzene	mg/l	0.0188	0	.025	75.1	68-135	L577879-01	WG595755
1,2,4-Trichlorobenzene	mg/l	0.0191	0	.025	76.4	67-133	L577879-01	WG595755
1,2-Dibromo-3-Chloropropane	mg/l	0.0181	0	.025	72.5	55-148	L577879-01	WG595755
1,2-Dibromoethane	mg/l	0.0210	0	.025	84.1	71-129	L577879-01	WG595755
1,2-Dichlorobenzene	mg/l	0.0202	0	.025	80.6	75-125	L577879-01	WG595755
1,2-Dichloroethane	mg/l	0.0227	0	.025	90.8	59-135	L577879-01	WG595755
1,2-Dichloropropane	mg/l	0.0234	0	.025	93.7	68-126	L577879-01	WG595755
1,3-Dichlorobenzene	mg/l	0.0209	0	.025	83.6	69-131	L577879-01	WG595755
1,4-Dichlorobenzene	mg/l	0.0212	0	.025	84.9	70-123	L577879-01	WG595755
2-Butanone (MEK)	mg/l	0.123	0	.125	98.5	51-149	L577879-01	WG595755
2-Hexanone	mg/l	0.109	0	.125	87.1	58-148	L577879-01	WG595755
4-Methyl-2-pentanone (MIBK)	mg/l	0.114	0	.125	91.5	53-154	L577879-01	WG595755
Acetone	mg/l	0.0915	0	.125	73.2	34-146	L577879-01	WG595755
Benzene	mg/l	0.0243	0	.025	97.4	51-134	L577879-01	WG595755
Bromochloromethane	mg/l	0.0229	0	.025	91.4	67-131	L577879-01	WG595755
Bromodichloromethane	mg/l	0.0235	0	.025	94.2	67-132	L577879-01	WG595755
Bromoform	mg/l	0.0213	0	.025	85.2	59-137	L577879-01	WG595755
Bromomethane	mg/l	0.0223	0	.025	89.1	23-177	L577879-01	WG595755
Carbon disulfide	mg/l	0.0287	0	.025	115.	10-165	L577879-01	WG595755
Carbon tetrachloride	mg/l	0.0259	0	.025	104.	49-140	L577879-01	WG595755
Chlorobenzene	mg/l	0.0222	0	.025	88.9	69-126	L577879-01	WG595755
Chlorodibromomethane	mg/l	0.0211	0	.025	84.3	68-130	L577879-01	WG595755
Chloroethane	mg/l	0.0236	0	.025	94.2	32-177	L577879-01	WG595755
Chloroform	mg/l	0.0251	0.00110	.025	96.2	64-130	L577879-01	WG595755
Chloromethane	mg/l	0.0246	0	.025	98.4	27-155	L577879-01	WG595755
cis-1,2-Dichloroethene	mg/l	0.0239	0	.025	95.8	54-137	L577879-01	WG595755
cis-1,3-Dichloropropene	mg/l	0.0243	0	.025	97.3	63-127	L577879-01	WG595755
Dichlorodifluoromethane	mg/l	0.0298	0	.025	119.	16-188	L577879-01	WG595755
Ethylbenzene	mg/l	0.0236	0	.025	94.3	64-135	L577879-01	WG595755
Isopropylbenzene	mg/l	0.0237	0	.025	94.6	62-134	L577879-01	WG595755
Methyl tert-butyl ether	mg/l	0.0235	0	.025	94.1	55-136	L577879-01	WG595755
Methylene Chloride	mg/l	0.0243	0	.025	97.0	52-130	L577879-01	WG595755
n-Propylbenzene	mg/l	0.0227	0	.025	90.6	62-137	L577879-01	WG595755
Styrene	mg/l	0.0219	0	.025	87.6	58-152	L577879-01	WG595755
Tetrachloroethene	mg/l	0.0233	0	.025	93.2	56-139	L577879-01	WG595755
Toluene	mg/l	0.0246	0	.025	98.5	61-126	L577879-01	WG595755
trans-1,2-Dichloroethene	mg/l	0.0237	0	.025	94.7	34-137	L577879-01	WG595755
Trichloroethene	mg/l	0.0249	0	.025	99.6	40-155	L577879-01	WG595755
Trichlorofluoromethane	mg/l	0.0253	0	.025	101.	35-177	L577879-01	WG595755
Vinyl chloride	mg/l	0.0255	0	.025	102.	32-159	L577879-01	WG595755
Xylenes, Total	mg/l	0.0682	0	.075	90.9	64-133	L577879-01	WG595755
4-Bromofluorobenzene					101.8	82-120		WG595755
Dibromofluoromethane					104.6	82-126		WG595755
Toluene-d8					109.8	92-112		WG595755
Antimony	mg/l	0.0625	0.000580	.0567	109.	75-125	L577357-02	WG595894
Arsenic	mg/l	0.0664	0.00349	.0567	111.	75-125	L577357-02	WG595894
Beryllium	mg/l	0.0589	0	.0567	104.	75-125	L577357-02	WG595894
Cadmium	mg/l	0.0624	0	.0567	110.	75-125	L577357-02	WG595894
Chromium	mg/l	0.0649	0.00611	.0567	104.	75-125	L577357-02	WG595894
Copper	mg/l	0.0626	0.00723	.0567	97.6	75-125	L577357-02	WG595894
Lead	mg/l	0.0620	0.00292	.0567	104.	75-125	L577357-02	WG595894
Nickel	mg/l	0.0740	0.0183	.0567	98.2	75-125	L577357-02	WG595894
Selenium	mg/l	0.0869	0.0214	.0567	116.	75-125	L577357-02	WG595894
Silver	mg/l	0.0581	0.000180	.0567	102.	75-125	L577357-02	WG595894
Thallium	mg/l	0.0584	0.0000400	.0567	103.	75-125	L577357-02	WG595894
Zinc	mg/l	0.0794	0.0192	.0567	106.	75-125	L577357-02	WG595894

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Quality Assurance Report
Level II

L577797

June 12, 2012

		Matrix Spike						
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Antimony,Dissolved	mg/l	0.0694	0	.0567	122.	75-125	L577358-06	WG595893
Arsenic,Dissolved	mg/l	0.0786	0	.0567	139.*	75-125	L577358-06	WG595893
Beryllium,Dissolved	mg/l	0.0644	0	.0567	114.	75-125	L577358-06	WG595893
Cadmium,Dissolved	mg/l	0.0637	0	.0567	112.	75-125	L577358-06	WG595893
Chromium,Dissolved	mg/l	0.0767	0	.0567	135.*	75-125	L577358-06	WG595893
Copper,Dissolved	mg/l	0.0549	0	.0567	96.8	75-125	L577358-06	WG595893
Lead,Dissolved	mg/l	0.0603	0	.0567	106.	75-125	L577358-06	WG595893
Nickel,Dissolved	mg/l	0.109	0	.0567	192.*	75-125	L577358-06	WG595893
Silver,Dissolved	mg/l	0.0600	0	.0567	106.	75-125	L577358-06	WG595893
Thallium,Dissolved	mg/l	0.0587	0	.0567	104.	75-125	L577358-06	WG595893
Zinc,Dissolved	mg/l	0.0676	0	.0567	119.	75-125	L577358-06	WG595893
trans-1,3-Dichloropropene	mg/l	0.0233	0.000611	.025	90.8	59-130	L578035-07	WG596109
4-Bromofluorobenzene					101.4	82-120		WG596109
Dibromofluoromethane					101.1	82-126		WG596109
Toluene-d8					100.6	92-112		WG596109
Selenium,Dissolved	mg/l	0.0722	0.0192	.0567	93.5	75-125	L577940-16	WG596117
Antimony	mg/l	0.0550	0.000190	.0567	96.7	75-125	L577940-16	WG596112
Arsenic	mg/l	0.131	0.0820	.0567	86.4	75-125	L577940-16	WG596112
Beryllium	mg/l	0.0543	0	.0567	95.8	75-125	L577940-16	WG596112
Cadmium	mg/l	0.0526	0	.0567	92.8	75-125	L577940-16	WG596112
Chromium	mg/l	0.0482	0.00226	.0567	81.0	75-125	L577940-16	WG596112
Copper	mg/l	0.0456	0.00290	.0567	75.3	75-125	L577940-16	WG596112
Lead	mg/l	0.0521	0.00162	.0567	89.0	75-125	L577940-16	WG596112
Nickel	mg/l	0.0535	0.0106	.0567	75.7	75-125	L577940-16	WG596112
Selenium	mg/l	0.0593	0.0111	.0567	85.0	75-125	L577940-16	WG596112
Silver	mg/l	0.0504	0.000640	.0567	87.8	75-125	L577940-16	WG596112
Thallium	mg/l	0.0512	0	.0567	90.3	75-125	L577940-16	WG596112
Zinc	mg/l	0.0818	0.0393	.0567	75.0*	75-125	L577940-16	WG596112

		Matrix Spike Duplicate							
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Gasoline Range Organics-NWTPH	mg/l	6.73	6.46	122.	58-122	4.10	20	L577671-01	WG595510
a,a,a-Trifluorotoluene(FID)				111.5	62-128				WG595510
Mercury	mg/l	0.00284	0.00277	94.7	70-130	2.50	20	L577793-04	WG595586
Mercury,Dissolved	mg/l	0.00282	0.00282	94.0	70-130	0	20	L577243-05	WG595170
Gasoline Range Organics-NWTPH	mg/l	6.54	6.39	119.	58-122	2.32	20	L577797-03	WG595636
a,a,a-Trifluorotoluene(FID)				105.0	62-128				WG595636
1,1,1-Trichloroethane	mg/l	0.0240	0.0250	96.1	58-137	3.98	20	L577879-01	WG595755
1,1,2,2-Tetrachloroethane	mg/l	0.0248	0.0205	99.3	64-149	19.3	20	L577879-01	WG595755
1,1,2-Trichloroethane	mg/l	0.0250	0.0217	100.	73-128	14.1	20	L577879-01	WG595755
1,1,2-Trichlorotrifluoroethane	mg/l	0.0259	0.0271	104.	46-159	4.69	21	L577879-01	WG595755
1,1-Dichloroethane	mg/l	0.0239	0.0242	95.6	58-133	1.24	20	L577879-01	WG595755
1,1-Dichloroethene	mg/l	0.0240	0.0255	96.2	32-152	6.00	20	L577879-01	WG595755
1,2,3-Trichlorobenzene	mg/l	0.0201	0.0188	80.6	68-135	7.03	20	L577879-01	WG595755

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Quality Assurance Report
Level II

L577797

June 12, 2012

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,2,4-Trichlorobenzene	mg/l	0.0205	0.0191	82.2	67-133	7.23	20	L577879-01	WG595755
1,2-Dibromo-3-Chloropropane	mg/l	0.0219	0.0181	87.5	55-148	18.7	22	L577879-01	WG595755
1,2-Dibromoethane	mg/l	0.0251	0.0210	100.	71-129	17.5	20	L577879-01	WG595755
1,2-Dichlorobenzene	mg/l	0.0214	0.0202	85.8	75-125	6.21	20	L577879-01	WG595755
1,2-Dichloroethane	mg/l	0.0244	0.0227	97.6	59-135	7.23	20	L577879-01	WG595755
1,2-Dichloropropane	mg/l	0.0249	0.0234	99.7	68-126	6.21	20	L577879-01	WG595755
1,3-Dichlorobenzene	mg/l	0.0226	0.0209	90.6	69-131	7.99	20	L577879-01	WG595755
1,4-Dichlorobenzene	mg/l	0.0220	0.0212	87.9	70-123	3.54	20	L577879-01	WG595755
2-Butanone (MEK)	mg/l	0.139	0.123	111.	51-149	12.3	22	L577879-01	WG595755
2-Hexanone	mg/l	0.138	0.109	110.	58-148	23.8	24	L577879-01	WG595755
4-Methyl-2-pentanone (MIBK)	mg/l	0.135	0.114	108.	53-154	16.5	21	L577879-01	WG595755
Acetone	mg/l	0.0965	0.0915	77.2	34-146	5.32	22	L577879-01	WG595755
Benzene	mg/l	0.0245	0.0243	98.0	51-134	0.700	20	L577879-01	WG595755
Bromochloromethane	mg/l	0.0246	0.0229	98.3	67-131	7.26	20	L577879-01	WG595755
Bromodichloromethane	mg/l	0.0249	0.0235	99.7	67-132	5.70	20	L577879-01	WG595755
Bromoform	mg/l	0.0246	0.0213	98.6	59-137	14.5	20	L577879-01	WG595755
Bromomethane	mg/l	0.0225	0.0223	90.0	23-177	0.980	21	L577879-01	WG595755
Carbon disulfide	mg/l	0.0278	0.0287	111.	10-165	3.17	22	L577879-01	WG595755
Carbon tetrachloride	mg/l	0.0243	0.0259	97.4	49-140	6.23	20	L577879-01	WG595755
Chlorobenzene	mg/l	0.0244	0.0222	97.7	69-126	9.42	20	L577879-01	WG595755
Chlorodibromomethane	mg/l	0.0242	0.0211	97.0	68-130	14.0	20	L577879-01	WG595755
Chloroethane	mg/l	0.0234	0.0236	93.5	32-177	0.720	21	L577879-01	WG595755
Chloroform	mg/l	0.0253	0.0251	96.9	64-130	0.680	20	L577879-01	WG595755
Chloromethane	mg/l	0.0247	0.0246	98.9	27-155	0.520	20	L577879-01	WG595755
cis-1,2-Dichloroethene	mg/l	0.0238	0.0239	95.0	54-137	0.770	20	L577879-01	WG595755
cis-1,3-Dichloropropene	mg/l	0.0257	0.0243	103.	63-127	5.46	20	L577879-01	WG595755
Dichlorodifluoromethane	mg/l	0.0279	0.0298	112.	16-188	6.44	22	L577879-01	WG595755
Ethylbenzene	mg/l	0.0251	0.0236	100.	64-135	6.27	20	L577879-01	WG595755
Isopropylbenzene	mg/l	0.0251	0.0237	100.	62-134	5.93	20	L577879-01	WG595755
Methyl tert-butyl ether	mg/l	0.0245	0.0235	98.0	55-136	4.04	20	L577879-01	WG595755
Methylene Chloride	mg/l	0.0251	0.0243	100.	52-130	3.53	20	L577879-01	WG595755
n-Propylbenzene	mg/l	0.0242	0.0227	96.9	62-137	6.69	20	L577879-01	WG595755
Styrene	mg/l	0.0240	0.0219	95.9	58-152	9.09	20	L577879-01	WG595755
Tetrachloroethene	mg/l	0.0240	0.0233	96.2	56-139	3.17	20	L577879-01	WG595755
Toluene	mg/l	0.0256	0.0246	102.	61-126	3.86	20	L577879-01	WG595755
trans-1,2-Dichloroethene	mg/l	0.0236	0.0237	94.3	34-137	0.350	20	L577879-01	WG595755
Trichloroethene	mg/l	0.0247	0.0249	98.6	40-155	0.980	20	L577879-01	WG595755
Trichlorofluoromethane	mg/l	0.0241	0.0253	96.5	35-177	4.70	23	L577879-01	WG595755
Vinyl chloride	mg/l	0.0245	0.0255	98.2	32-159	3.85	21	L577879-01	WG595755
Xylenes, Total	mg/l	0.0727	0.0682	97.0	64-133	6.44	20	L577879-01	WG595755
4-Bromofluorobenzene				105.2	82-120				WG595755
Dibromofluoromethane				100.5	82-126				WG595755
Toluene-d8				107.8	92-112				WG595755
Antimony	mg/l	0.0624	0.0625	109.	75-125	0.160	20	L577357-02	WG595894
Arsenic	mg/l	0.0660	0.0664	110.	75-125	0.604	20	L577357-02	WG595894
Beryllium	mg/l	0.0609	0.0589	107.	75-125	3.34	20	L577357-02	WG595894
Cadmium	mg/l	0.0636	0.0624	112.	75-125	1.90	20	L577357-02	WG595894
Chromium	mg/l	0.0649	0.0649	104.	75-125	0	20	L577357-02	WG595894
Copper	mg/l	0.0622	0.0626	96.9	75-125	0.641	20	L577357-02	WG595894
Lead	mg/l	0.0624	0.0620	105.	75-125	0.643	20	L577357-02	WG595894
Nickel	mg/l	0.0752	0.0740	100.	75-125	1.61	20	L577357-02	WG595894
Selenium	mg/l	0.0848	0.0869	112.	75-125	2.45	20	L577357-02	WG595894
Silver	mg/l	0.0599	0.0581	105.	75-125	3.05	20	L577357-02	WG595894
Thallium	mg/l	0.0592	0.0584	104.	75-125	1.36	20	L577357-02	WG595894
Zinc	mg/l	0.0803	0.0794	108.	75-125	1.13	20	L577357-02	WG595894

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Quality Assurance Report
Level II

L577797

June 12, 2012

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Antimony,Dissolved	mg/l	0.0684	0.0694	121.	75-125	1.45	20	L577358-06	WG595893
Arsenic,Dissolved	mg/l	0.0790	0.0786	139.*	75-125	0.508	20	L577358-06	WG595893
Beryllium,Dissolved	mg/l	0.0635	0.0644	112.	75-125	1.41	20	L577358-06	WG595893
Cadmium,Dissolved	mg/l	0.0635	0.0637	112.	75-125	0.314	20	L577358-06	WG595893
Chromium,Dissolved	mg/l	0.0757	0.0767	134.*	75-125	1.31	20	L577358-06	WG595893
Copper,Dissolved	mg/l	0.0550	0.0549	97.0	75-125	0.182	20	L577358-06	WG595893
Lead,Dissolved	mg/l	0.0599	0.0603	106.	75-125	0.666	20	L577358-06	WG595893
Nickel,Dissolved	mg/l	0.111	0.109	196.*	75-125	1.82	20	L577358-06	WG595893
Silver,Dissolved	mg/l	0.0605	0.0600	107.	75-125	0.830	20	L577358-06	WG595893
Thallium,Dissolved	mg/l	0.0584	0.0587	103.	75-125	0.512	20	L577358-06	WG595893
Zinc,Dissolved	mg/l	0.0664	0.0676	117.	75-125	1.79	20	L577358-06	WG595893
trans-1,3-Dichloropropene	mg/l	0.0234	0.0233	91.0	59-130	0.190	20	L578035-07	WG596109
4-Bromofluorobenzene				103.4	82-120				WG596109
Dibromofluoromethane				99.71	82-126				WG596109
Toluene-d8				101.8	92-112				WG596109
Selenium,Dissolved	mg/l	0.0726	0.0722	94.2	75-125	0.552	20	L577940-16	WG596117
Antimony	mg/l	0.0551	0.0550	96.8	75-125	0.182	20	L577940-16	WG596112
Arsenic	mg/l	0.132	0.131	88.2	75-125	0.760	20	L577940-16	WG596112
Beryllium	mg/l	0.0536	0.0543	94.5	75-125	1.30	20	L577940-16	WG596112
Cadmium	mg/l	0.0531	0.0526	93.6	75-125	0.946	20	L577940-16	WG596112
Chromium	mg/l	0.0483	0.0482	81.2	75-125	0.207	20	L577940-16	WG596112
Copper	mg/l	0.0457	0.0456	75.5	75-125	0.219	20	L577940-16	WG596112
Lead	mg/l	0.0523	0.0521	89.4	75-125	0.383	20	L577940-16	WG596112
Nickel	mg/l	0.0532	0.0535	75.1	75-125	0.562	20	L577940-16	WG596112
Selenium	mg/l	0.0612	0.0593	88.4	75-125	3.15	20	L577940-16	WG596112
Silver	mg/l	0.0509	0.0504	88.6	75-125	0.987	20	L577940-16	WG596112
Thallium	mg/l	0.0511	0.0512	90.1	75-125	0.196	20	L577940-16	WG596112
Zinc	mg/l	0.0816	0.0818	74.6*	75-125	0.245	20	L577940-16	WG596112

Batch number /Run number / Sample number cross reference

WG595510: R2192153: L577797-04 05
WG595586: R2193277: L577797-01 06
WG595170: R2194376: L577797-01 06
WG595636: R2194380: L577797-02 03
WG595755: R2194855: L577797-07
WG595894: R2195274: L577797-01
WG595893: R2196854: L577797-01 06
WG596109: R2196873: L577797-07
WG596117: R2199454: L577797-01 06
WG596059: R2199754: L577797-02 03 04 05
WG596112: R2203454: L577797-06
WG596058: R2205093: L577797-02 03 04 05

* * Calculations are performed prior to rounding of reported values.
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West Linn, OR 97068

Quality Assurance Report
Level II

L577797

June 12, 2012

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Chris Kramer
SLR International Corp. - West Linn, OR
1800 Blankenship Road, Suite 440
West Linn, OR 97068

Report Summary

Tuesday May 29, 2012

Report Number: L576141
Samples Received: 05/18/12
Client Project: 008.0288.00037

Description: Nord Door Project - Everett, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jarred Willis

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Chris Kramer
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

May 29, 2012

ESC Sample # : L576141-01

Date Received : May 18, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : 401P-GW

Project # : 008.0288.00037

Collected By : Chris Lee
Collection Date : 05/17/12 11:23

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	1.0	25.	ug/l		8260B	05/24/12	1
Benzene	U	0.090	0.50	ug/l		8260B	05/24/12	1
Bromochloromethane	U	0.15	0.50	ug/l		8260B	05/24/12	1
Bromodichloromethane	U	0.080	0.50	ug/l		8260B	05/24/12	1
Bromoform	U	0.19	0.50	ug/l		8260B	05/24/12	1
Bromomethane	U	0.16	0.50	ug/l		8260B	05/24/12	1
2-Butanone (MEK)	U	1.3	2.5	ug/l		8260B	05/24/12	1
Carbon disulfide	U	0.10	0.50	ug/l		8260B	05/24/12	1
Carbon tetrachloride	U	0.16	0.50	ug/l	J3	8260B	05/24/12	1
Chlorobenzene	U	0.14	0.50	ug/l		8260B	05/24/12	1
Chloroethane	U	0.14	0.50	ug/l		8260B	05/24/12	1
Chloroform	U	0.086	0.50	ug/l		8260B	05/24/12	1
Chloromethane	U	0.15	0.50	ug/l		8260B	05/24/12	1
1,2-Dibromo-3-Chloropropane	U	0.32	1.0	ug/l		8260B	05/24/12	1
Chlorodibromomethane	U	0.13	0.50	ug/l		8260B	05/24/12	1
1,2-Dibromoethane	U	0.19	0.50	ug/l		8260B	05/24/12	1
1,2-Dichlorobenzene	U	0.10	0.50	ug/l		8260B	05/24/12	1
1,3-Dichlorobenzene	U	0.13	0.50	ug/l		8260B	05/24/12	1
1,4-Dichlorobenzene	U	0.12	0.50	ug/l		8260B	05/24/12	1
Dichlorodifluoromethane	U	0.13	0.50	ug/l	J4J3	8260B	05/24/12	1
1,1-Dichloroethane	U	0.11	0.50	ug/l		8260B	05/24/12	1
1,2-Dichloroethane	U	0.11	0.50	ug/l		8260B	05/24/12	1
1,1-Dichloroethene	U	0.19	0.50	ug/l	J3	8260B	05/24/12	1
cis-1,2-Dichloroethene	U	0.093	0.50	ug/l		8260B	05/24/12	1
trans-1,2-Dichloroethene	U	0.15	0.50	ug/l		8260B	05/24/12	1
1,2-Dichloropropane	U	0.19	0.50	ug/l		8260B	05/24/12	1
cis-1,3-Dichloropropene	U	0.098	0.50	ug/l		8260B	05/24/12	1
trans-1,3-Dichloropropene	U	0.22	0.50	ug/l		8260B	05/25/12	1
Ethylbenzene	U	0.16	0.50	ug/l		8260B	05/24/12	1
2-Hexanone	U	0.76	2.5	ug/l		8260B	05/24/12	1
Isopropylbenzene	U	0.13	0.50	ug/l		8260B	05/24/12	1
4-Methyl-2-pentanone (MIBK)	U	0.82	2.5	ug/l		8260B	05/24/12	1
Methyl tert-butyl ether	U	0.10	0.50	ug/l		8260B	05/24/12	1
n-Propylbenzene	U	0.16	0.50	ug/l		8260B	05/24/12	1
Methylene Chloride	U	0.11	2.5	ug/l		8260B	05/24/12	1
Styrene	U	0.12	0.50	ug/l		8260B	05/24/12	1
1,1,2,2-Tetrachloroethane	U	0.17	0.50	ug/l		8260B	05/24/12	1
Tetrachloroethene	U	0.20	0.50	ug/l		8260B	05/24/12	1
Toluene	U	0.10	0.50	ug/l		8260B	05/24/12	1
1,1,2-Trichlorotrifluoroethane	U	0.16	0.50	ug/l	J3	8260B	05/24/12	1
1,2,3-Trichlorobenzene	U	0.16	0.50	ug/l		8260B	05/24/12	1
1,2,4-Trichlorobenzene	U	0.15	0.50	ug/l		8260B	05/24/12	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
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REPORT OF ANALYSIS

Chris Kramer
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

May 29, 2012

ESC Sample # : L576141-01

Date Received : May 18, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : 401P-GW

Project # : 008.0288.00037

Collected By : Chris Lee
Collection Date : 05/17/12 11:23

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,1,1-Trichloroethane	U	0.094	0.50	ug/l		8260B	05/24/12	1
1,1,2-Trichloroethane	U	0.19	0.50	ug/l		8260B	05/24/12	1
Trichloroethene	U	0.15	0.50	ug/l		8260B	05/24/12	1
Trichlorofluoromethane	U	0.13	0.50	ug/l	J3	8260B	05/24/12	1
Vinyl chloride	U	0.12	0.50	ug/l	J3	8260B	05/24/12	1
Xylenes, Total	U	0.32	1.5	ug/l		8260B	05/24/12	1
Cyclohexane	U	0.39	1.0	ug/l		8260B	05/25/12	1
1,4-Dioxane	U	36.	100	ug/l		8260B	05/25/12	1
Methyl Acetate	U	4.3	20.	ug/l		8260B	05/25/12	1
Methyl Cyclohexane	U	0.38	1.0	ug/l		8260B	05/25/12	1
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	05/24/12	1
Dibromofluoromethane	105.			% Rec.		8260B	05/24/12	1
4-Bromofluorobenzene	102.			% Rec.		8260B	05/24/12	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
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REPORT OF ANALYSIS

Chris Kramer
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

May 29, 2012

ESC Sample # : L576141-02

Date Received : May 18, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : 403P-GW

Project # : 008.0288.00037

Collected By : Chris Lee
Collection Date : 05/17/12 10:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	1.0	25.	ug/l		8260B	05/24/12	1
Benzene	U	0.090	0.50	ug/l		8260B	05/24/12	1
Bromochloromethane	U	0.15	0.50	ug/l		8260B	05/24/12	1
Bromodichloromethane	U	0.080	0.50	ug/l		8260B	05/24/12	1
Bromoform	U	0.19	0.50	ug/l		8260B	05/24/12	1
Bromomethane	U	0.16	0.50	ug/l		8260B	05/24/12	1
2-Butanone (MEK)	U	1.3	2.5	ug/l		8260B	05/24/12	1
Carbon disulfide	U	0.10	0.50	ug/l		8260B	05/24/12	1
Carbon tetrachloride	U	0.16	0.50	ug/l	J3	8260B	05/24/12	1
Chlorobenzene	U	0.14	0.50	ug/l		8260B	05/24/12	1
Chloroethane	U	0.14	0.50	ug/l		8260B	05/24/12	1
Chloroform	U	0.086	0.50	ug/l		8260B	05/24/12	1
Chloromethane	U	0.15	0.50	ug/l		8260B	05/24/12	1
1,2-Dibromo-3-Chloropropane	U	0.32	1.0	ug/l		8260B	05/24/12	1
Chlorodibromomethane	U	0.13	0.50	ug/l		8260B	05/24/12	1
1,2-Dibromoethane	U	0.19	0.50	ug/l		8260B	05/24/12	1
1,2-Dichlorobenzene	U	0.10	0.50	ug/l		8260B	05/24/12	1
1,3-Dichlorobenzene	U	0.13	0.50	ug/l		8260B	05/24/12	1
1,4-Dichlorobenzene	U	0.12	0.50	ug/l		8260B	05/24/12	1
Dichlorodifluoromethane	U	0.13	0.50	ug/l	J4J3	8260B	05/24/12	1
1,1-Dichloroethane	U	0.11	0.50	ug/l		8260B	05/24/12	1
1,2-Dichloroethane	U	0.11	0.50	ug/l		8260B	05/24/12	1
1,1-Dichloroethene	U	0.19	0.50	ug/l	J3	8260B	05/24/12	1
cis-1,2-Dichloroethene	U	0.093	0.50	ug/l		8260B	05/24/12	1
trans-1,2-Dichloroethene	U	0.15	0.50	ug/l		8260B	05/24/12	1
1,2-Dichloropropane	U	0.19	0.50	ug/l		8260B	05/24/12	1
cis-1,3-Dichloropropene	U	0.098	0.50	ug/l		8260B	05/24/12	1
trans-1,3-Dichloropropene	U	0.22	0.50	ug/l		8260B	05/25/12	1
Ethylbenzene	U	0.16	0.50	ug/l		8260B	05/24/12	1
2-Hexanone	U	0.76	2.5	ug/l		8260B	05/24/12	1
Isopropylbenzene	U	0.13	0.50	ug/l		8260B	05/24/12	1
4-Methyl-2-pentanone (MIBK)	U	0.82	2.5	ug/l		8260B	05/24/12	1
Methyl tert-butyl ether	U	0.10	0.50	ug/l		8260B	05/24/12	1
n-Propylbenzene	U	0.16	0.50	ug/l		8260B	05/24/12	1
Methylene Chloride	U	0.11	2.5	ug/l		8260B	05/24/12	1
Styrene	U	0.12	0.50	ug/l		8260B	05/24/12	1
1,1,2,2-Tetrachloroethane	U	0.17	0.50	ug/l		8260B	05/24/12	1
Tetrachloroethene	U	0.20	0.50	ug/l		8260B	05/24/12	1
Toluene	U	0.10	0.50	ug/l		8260B	05/24/12	1
1,1,2-Trichlorotrifluoroethane	U	0.16	0.50	ug/l	J3	8260B	05/24/12	1
1,2,3-Trichlorobenzene	U	0.16	0.50	ug/l		8260B	05/24/12	1
1,2,4-Trichlorobenzene	U	0.15	0.50	ug/l		8260B	05/24/12	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
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REPORT OF ANALYSIS

Chris Kramer
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

May 29, 2012

ESC Sample # : L576141-02

Date Received : May 18, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : 403P-GW

Project # : 008.0288.00037

Collected By : Chris Lee
Collection Date : 05/17/12 10:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,1,1-Trichloroethane	U	0.094	0.50	ug/l		8260B	05/24/12	1
1,1,2-Trichloroethane	U	0.19	0.50	ug/l		8260B	05/24/12	1
Trichloroethene	U	0.15	0.50	ug/l		8260B	05/24/12	1
Trichlorofluoromethane	U	0.13	0.50	ug/l	J3	8260B	05/24/12	1
Vinyl chloride	U	0.12	0.50	ug/l	J3	8260B	05/24/12	1
Xylenes, Total	U	0.32	1.5	ug/l		8260B	05/24/12	1
Cyclohexane	U	0.39	1.0	ug/l		8260B	05/25/12	1
1,4-Dioxane	U	36.	100	ug/l		8260B	05/25/12	1
Methyl Acetate	U	4.3	20.	ug/l		8260B	05/25/12	1
Methyl Cyclohexane	U	0.38	1.0	ug/l		8260B	05/25/12	1
Surrogate Recovery								
Toluene-d8	107.			% Rec.		8260B	05/24/12	1
Dibromofluoromethane	106.			% Rec.		8260B	05/24/12	1
4-Bromofluorobenzene	102.			% Rec.		8260B	05/24/12	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

Chris Kramer
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May 29, 2012

ESC Sample # : L576141-03

Date Received : May 18, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : 405P-GW

Project # : 008.0288.00037

Collected By : Chris Lee
Collection Date : 05/17/12 09:25

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Antimony	1.7	0.21	1.0	ug/l		6020	05/26/12	1
Antimony,Dissolved	U	0.21	1.0	ug/l		6020	05/23/12	1
Arsenic	38.	1.2	5.0	ug/l		6020	05/26/12	5
Arsenic,Dissolved	7.3	0.25	1.0	ug/l		6020	05/23/12	1
Beryllium	0.53	0.12	1.0	ug/l	J	6020	05/26/12	1
Beryllium,Dissolved	U	0.12	1.0	ug/l		6020	05/24/12	1
Cadmium	1.6	0.16	0.50	ug/l		6020	05/26/12	1
Cadmium,Dissolved	U	0.16	0.50	ug/l		6020	05/23/12	1
Chromium	290	2.7	10.	ug/l		6020	05/26/12	5
Chromium,Dissolved	U	0.54	2.0	ug/l		6020	05/23/12	1
Copper	300	2.6	10.	ug/l		6020	05/26/12	5
Copper,Dissolved	0.65	0.52	2.0	ug/l	J	6020	05/23/12	1
Lead	61.	0.24	1.0	ug/l		6020	05/26/12	1
Lead,Dissolved	U	0.24	1.0	ug/l		6020	05/23/12	1
Nickel	440	1.8	5.0	ug/l		6020	05/26/12	5
Nickel,Dissolved	11.	0.35	1.0	ug/l		6020	05/23/12	1
Selenium	2.0	1.9	5.0	ug/l	J	6020	05/26/12	5
Selenium,Dissolved	8.6	0.38	1.0	ug/l		6020	05/23/12	1
Silver	0.75	0.31	1.0	ug/l	J	6020	05/26/12	1
Silver,Dissolved	U	0.31	1.0	ug/l		6020	05/23/12	1
Thallium	0.19	0.19	1.0	ug/l	J	6020	05/26/12	1
Thallium,Dissolved	U	0.19	1.0	ug/l		6020	05/23/12	1
Zinc	240	13.	50.	ug/l		6020	05/26/12	5
Zinc,Dissolved	U	2.6	10.	ug/l		6020	05/23/12	1
Mercury	U	0.015	0.20	ug/l		7470A	05/23/12	1
Mercury,Dissolved	U	0.015	0.20	ug/l		7470A	05/23/12	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Chris Kramer
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

May 29, 2012

ESC Sample # : L576141-04

Date Received : May 18, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : TRIP BLANK

Project # : 008.0288.00037

Collected By : Chris Lee
Collection Date : 05/17/12 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	1.0	25.	ug/l		8260B	05/24/12	1
Benzene	U	0.090	0.50	ug/l		8260B	05/24/12	1
Bromochloromethane	U	0.15	0.50	ug/l		8260B	05/24/12	1
Bromodichloromethane	U	0.080	0.50	ug/l		8260B	05/24/12	1
Bromoform	U	0.19	0.50	ug/l		8260B	05/24/12	1
Bromomethane	U	0.16	0.50	ug/l		8260B	05/25/12	1
2-Butanone (MEK)	U	1.3	2.5	ug/l		8260B	05/24/12	1
Carbon disulfide	U	0.10	0.50	ug/l		8260B	05/24/12	1
Carbon tetrachloride	U	0.16	0.50	ug/l		8260B	05/24/12	1
Chlorobenzene	U	0.14	0.50	ug/l		8260B	05/24/12	1
Chloroethane	U	0.14	0.50	ug/l		8260B	05/24/12	1
Chloroform	U	0.086	0.50	ug/l		8260B	05/24/12	1
Chloromethane	U	0.15	0.50	ug/l		8260B	05/24/12	1
1,2-Dibromo-3-Chloropropane	U	0.32	1.0	ug/l		8260B	05/25/12	1
Chlorodibromomethane	U	0.13	0.50	ug/l		8260B	05/24/12	1
1,2-Dibromoethane	U	0.19	0.50	ug/l		8260B	05/24/12	1
1,2-Dichlorobenzene	U	0.10	0.50	ug/l		8260B	05/24/12	1
1,3-Dichlorobenzene	U	0.13	0.50	ug/l		8260B	05/24/12	1
1,4-Dichlorobenzene	U	0.12	0.50	ug/l		8260B	05/24/12	1
Dichlorodifluoromethane	U	0.13	0.50	ug/l		8260B	05/24/12	1
1,1-Dichloroethane	U	0.11	0.50	ug/l		8260B	05/24/12	1
1,2-Dichloroethane	U	0.11	0.50	ug/l		8260B	05/24/12	1
1,1-Dichloroethene	U	0.19	0.50	ug/l		8260B	05/25/12	1
cis-1,2-Dichloroethene	U	0.093	0.50	ug/l		8260B	05/24/12	1
trans-1,2-Dichloroethene	U	0.15	0.50	ug/l		8260B	05/24/12	1
1,2-Dichloropropane	U	0.19	0.50	ug/l		8260B	05/25/12	1
cis-1,3-Dichloropropene	U	0.098	0.50	ug/l		8260B	05/24/12	1
trans-1,3-Dichloropropene	U	0.22	0.50	ug/l		8260B	05/24/12	1
Ethylbenzene	U	0.16	0.50	ug/l		8260B	05/24/12	1
2-Hexanone	U	0.76	2.5	ug/l	J4	8260B	05/24/12	1
Isopropylbenzene	U	0.13	0.50	ug/l		8260B	05/24/12	1
4-Methyl-2-pentanone (MIBK)	U	0.82	2.5	ug/l		8260B	05/24/12	1
Methyl tert-butyl ether	U	0.10	0.50	ug/l		8260B	05/24/12	1
n-Propylbenzene	U	0.16	0.50	ug/l		8260B	05/24/12	1
Methylene Chloride	0.35	0.11	2.5	ug/l	J	8260B	05/25/12	1
Styrene	U	0.12	0.50	ug/l		8260B	05/24/12	1
1,1,2,2-Tetrachloroethane	U	0.17	0.50	ug/l		8260B	05/24/12	1
Tetrachloroethene	U	0.20	0.50	ug/l		8260B	05/24/12	1
Toluene	U	0.10	0.50	ug/l		8260B	05/24/12	1
1,1,2-Trichlorotrifluoroethane	U	0.16	0.50	ug/l		8260B	05/24/12	1
1,2,3-Trichlorobenzene	U	0.16	0.50	ug/l		8260B	05/24/12	1
1,2,4-Trichlorobenzene	U	0.15	0.50	ug/l		8260B	05/24/12	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
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REPORT OF ANALYSIS

Chris Kramer
SLR International Corp. - West Linn
1800 Blankenship Road, Suite 440
West Linn, OR 97068

May 29, 2012

ESC Sample # : L576141-04

Date Received : May 18, 2012
Description : Nord Door Project - Everett, WA

Site ID : EVERETT, WA

Sample ID : TRIP BLANK

Project # : 008.0288.00037

Collected By : Chris Lee
Collection Date : 05/17/12 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,1,1-Trichloroethane	U	0.094	0.50	ug/l		8260B	05/24/12	1
1,1,2-Trichloroethane	U	0.19	0.50	ug/l		8260B	05/24/12	1
Trichloroethene	U	0.15	0.50	ug/l		8260B	05/24/12	1
Trichlorofluoromethane	U	0.13	0.50	ug/l		8260B	05/24/12	1
Vinyl chloride	U	0.12	0.50	ug/l		8260B	05/24/12	1
Xylenes, Total	U	0.32	1.5	ug/l		8260B	05/24/12	1
Cyclohexane	U	0.39	1.0	ug/l		8260B	05/24/12	1
1,4-Dioxane	U	36.	100	ug/l		8260B	05/24/12	1
Methyl Acetate	U	4.3	20.	ug/l		8260B	05/24/12	1
Methyl Cyclohexane	U	0.38	1.0	ug/l		8260B	05/24/12	1
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	05/24/12	1
Dibromofluoromethane	117.			% Rec.		8260B	05/24/12	1
4-Bromofluorobenzene	108.			% Rec.		8260B	05/24/12	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L576141-01	WG594414	SAMP	Carbon tetrachloride	R2183734	J3
	WG594414	SAMP	Dichlorodifluoromethane	R2183734	J4J3
	WG594414	SAMP	1,1-Dichloroethene	R2183734	J3
	WG594414	SAMP	1,1,2-Trichlorotrifluoroethane	R2183734	J3
	WG594414	SAMP	Trichlorofluoromethane	R2183734	J3
	WG594414	SAMP	Vinyl chloride	R2183734	J3
L576141-02	WG594414	SAMP	Carbon tetrachloride	R2183734	J3
	WG594414	SAMP	Dichlorodifluoromethane	R2183734	J4J3
	WG594414	SAMP	1,1-Dichloroethene	R2183734	J3
	WG594414	SAMP	1,1,2-Trichlorotrifluoroethane	R2183734	J3
	WG594414	SAMP	Trichlorofluoromethane	R2183734	J3
	WG594414	SAMP	Vinyl chloride	R2183734	J3
L576141-03	WG593974	SAMP	Beryllium	R2186713	J
	WG593943	SAMP	Copper,Dissolved	R2181473	J
	WG593974	SAMP	Selenium	R2186713	J
	WG593974	SAMP	Silver	R2186713	J
	WG593974	SAMP	Thallium	R2186713	J
L576141-04	WG594518	SAMP	2-Hexanone	R2184593	J4
	WG594644	SAMP	Methylene Chloride	R2185553	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
05/29/12 at 10:14:40

TSR Signing Reports: 358
R5 - Desired TAT

Log ALL metals in GW by 6020. Log ALL VOCs in GW by V8260LL.

Sample: L576141-01 Account: SLRWLOR Received: 05/18/12 09:00 Due Date: 05/25/12 00:00 RPT Date: 05/29/12 07:43
V8260LL has AP9 compounds and LL compounds.
Sample: L576141-02 Account: SLRWLOR Received: 05/18/12 09:00 Due Date: 05/25/12 00:00 RPT Date: 05/29/12 07:43
V8260LL has AP9 compounds and LL compounds.
Sample: L576141-03 Account: SLRWLOR Received: 05/18/12 09:00 Due Date: 05/25/12 00:00 RPT Date: 05/29/12 07:43
Log ALL metals in GW by 6020.
Sample: L576141-04 Account: SLRWLOR Received: 05/18/12 09:00 Due Date: 05/25/12 00:00 RPT Date: 05/29/12 07:43
V8260LL has AP9 compounds and LL compounds.

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West Linn, OR 97068

Quality Assurance Report
Level II

L576141

May 29, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Antimony,Dissolved	< .001	mg/l			WG593943	05/23/12 09:57
Arsenic,Dissolved	< .001	mg/l			WG593943	05/23/12 09:57
Cadmium,Dissolved	< .0005	mg/l			WG593943	05/23/12 09:57
Chromium,Dissolved	< .002	mg/l			WG593943	05/23/12 09:57
Copper,Dissolved	< .002	mg/l			WG593943	05/23/12 09:57
Lead,Dissolved	< .001	mg/l			WG593943	05/23/12 09:57
Nickel,Dissolved	< .001	mg/l			WG593943	05/23/12 09:57
Selenium,Dissolved	< .001	mg/l			WG593943	05/23/12 09:57
Silver,Dissolved	< .001	mg/l			WG593943	05/23/12 09:57
Thallium,Dissolved	< .001	mg/l			WG593943	05/23/12 09:57
Zinc,Dissolved	< .01	mg/l			WG593943	05/23/12 09:57
Mercury	< .0002	mg/l			WG593807	05/23/12 13:53
Mercury,Dissolved	< .0002	mg/l			WG593809	05/23/12 12:25
1,1,1-Trichloroethane	< .001	mg/l			WG594414	05/23/12 22:19
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG594414	05/23/12 22:19
1,1,2-Trichloroethane	< .001	mg/l			WG594414	05/23/12 22:19
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG594414	05/23/12 22:19
1,1-Dichloroethane	< .001	mg/l			WG594414	05/23/12 22:19
1,1-Dichloroethene	< .001	mg/l			WG594414	05/23/12 22:19
1,2,3-Trichlorobenzene	< .001	mg/l			WG594414	05/23/12 22:19
1,2,4-Trichlorobenzene	< .001	mg/l			WG594414	05/23/12 22:19
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG594414	05/23/12 22:19
1,2-Dibromoethane	< .001	mg/l			WG594414	05/23/12 22:19
1,2-Dichlorobenzene	< .001	mg/l			WG594414	05/23/12 22:19
1,2-Dichloroethane	< .001	mg/l			WG594414	05/23/12 22:19
1,2-Dichloropropane	< .001	mg/l			WG594414	05/23/12 22:19
1,3-Dichlorobenzene	< .001	mg/l			WG594414	05/23/12 22:19
1,4-Dichlorobenzene	< .001	mg/l			WG594414	05/23/12 22:19
2-Butanone (MEK)	< .01	mg/l			WG594414	05/23/12 22:19
2-Hexanone	< .01	mg/l			WG594414	05/23/12 22:19
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG594414	05/23/12 22:19
Acetone	< .05	mg/l			WG594414	05/23/12 22:19
Benzene	< .001	mg/l			WG594414	05/23/12 22:19
Bromochloromethane	< .001	mg/l			WG594414	05/23/12 22:19
Bromodichloromethane	< .001	mg/l			WG594414	05/23/12 22:19
Bromoform	< .001	mg/l			WG594414	05/23/12 22:19
Bromomethane	< .005	mg/l			WG594414	05/23/12 22:19
Carbon disulfide	< .001	mg/l			WG594414	05/23/12 22:19
Carbon tetrachloride	< .001	mg/l			WG594414	05/23/12 22:19
Chlorobenzene	< .001	mg/l			WG594414	05/23/12 22:19
Chlorodibromomethane	< .001	mg/l			WG594414	05/23/12 22:19
Chloroethane	< .005	mg/l			WG594414	05/23/12 22:19
Chloroform	< .005	mg/l			WG594414	05/23/12 22:19
Chloromethane	< .0025	mg/l			WG594414	05/23/12 22:19
cis-1,2-Dichloroethene	< .001	mg/l			WG594414	05/23/12 22:19
cis-1,3-Dichloropropene	< .001	mg/l			WG594414	05/23/12 22:19
Dichlorodifluoromethane	< .005	mg/l			WG594414	05/23/12 22:19
Ethylbenzene	< .001	mg/l			WG594414	05/23/12 22:19
Isopropylbenzene	< .001	mg/l			WG594414	05/23/12 22:19
Methyl tert-butyl ether	< .001	mg/l			WG594414	05/23/12 22:19
Methylene Chloride	< .005	mg/l			WG594414	05/23/12 22:19
n-Propylbenzene	< .001	mg/l			WG594414	05/23/12 22:19
Styrene	< .001	mg/l			WG594414	05/23/12 22:19

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Level II

May 29, 2012

L576141

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Tetrachloroethene	< .001	mg/l			WG594414	05/23/12 22:19
Toluene	< .005	mg/l			WG594414	05/23/12 22:19
trans-1,2-Dichloroethene	< .001	mg/l			WG594414	05/23/12 22:19
Trichloroethene	< .001	mg/l			WG594414	05/23/12 22:19
Trichlorofluoromethane	< .005	mg/l			WG594414	05/23/12 22:19
Vinyl chloride	< .001	mg/l			WG594414	05/23/12 22:19
Xylenes, Total	< .003	mg/l			WG594414	05/23/12 22:19
4-Bromofluorobenzene		% Rec.	101.2	82-120	WG594414	05/23/12 22:19
Dibromofluoromethane		% Rec.	106.4	82-126	WG594414	05/23/12 22:19
Toluene-d8		% Rec.	107.2	92-112	WG594414	05/23/12 22:19
Beryllium,Dissolved	< .001	mg/l			WG594285	05/24/12 15:52
1,1,1-Trichloroethane	< .001	mg/l			WG594518	05/24/12 19:09
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG594518	05/24/12 19:09
1,1,2-Trichloroethane	< .001	mg/l			WG594518	05/24/12 19:09
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG594518	05/24/12 19:09
1,1-Dichloroethane	< .001	mg/l			WG594518	05/24/12 19:09
1,2,3-Trichlorobenzene	< .001	mg/l			WG594518	05/24/12 19:09
1,2,4-Trichlorobenzene	< .001	mg/l			WG594518	05/24/12 19:09
1,2-Dibromoethane	< .001	mg/l			WG594518	05/24/12 19:09
1,2-Dichlorobenzene	< .001	mg/l			WG594518	05/24/12 19:09
1,2-Dichloroethane	< .001	mg/l			WG594518	05/24/12 19:09
1,3-Dichlorobenzene	< .001	mg/l			WG594518	05/24/12 19:09
1,4-Dichlorobenzene	< .001	mg/l			WG594518	05/24/12 19:09
2-Butanone (MEK)	< .01	mg/l			WG594518	05/24/12 19:09
2-Hexanone	< .01	mg/l			WG594518	05/24/12 19:09
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG594518	05/24/12 19:09
Acetone	< .05	mg/l			WG594518	05/24/12 19:09
Benzene	< .001	mg/l			WG594518	05/24/12 19:09
Bromochloromethane	< .001	mg/l			WG594518	05/24/12 19:09
Bromodichloromethane	< .001	mg/l			WG594518	05/24/12 19:09
Bromoform	< .001	mg/l			WG594518	05/24/12 19:09
Carbon disulfide	< .001	mg/l			WG594518	05/24/12 19:09
Carbon tetrachloride	< .001	mg/l			WG594518	05/24/12 19:09
Chlorobenzene	< .001	mg/l			WG594518	05/24/12 19:09
Chlorodibromomethane	< .001	mg/l			WG594518	05/24/12 19:09
Chloroethane	< .005	mg/l			WG594518	05/24/12 19:09
Chloroform	< .005	mg/l			WG594518	05/24/12 19:09
Chloromethane	< .0025	mg/l			WG594518	05/24/12 19:09
cis-1,2-Dichloroethene	< .001	mg/l			WG594518	05/24/12 19:09
cis-1,3-Dichloropropene	< .001	mg/l			WG594518	05/24/12 19:09
Cyclohexane	< .001	mg/l			WG594518	05/24/12 19:09
Dichlorodifluoromethane	< .005	mg/l			WG594518	05/24/12 19:09
Ethylbenzene	< .001	mg/l			WG594518	05/24/12 19:09
Isopropylbenzene	< .001	mg/l			WG594518	05/24/12 19:09
Methyl Acetate	< .02	mg/l			WG594518	05/24/12 19:09
Methyl Cyclohexane	< .001	mg/l			WG594518	05/24/12 19:09
Methyl tert-butyl ether	< .001	mg/l			WG594518	05/24/12 19:09
n-Propylbenzene	< .001	mg/l			WG594518	05/24/12 19:09
Styrene	< .001	mg/l			WG594518	05/24/12 19:09
Tetrachloroethene	< .001	mg/l			WG594518	05/24/12 19:09
Toluene	< .005	mg/l			WG594518	05/24/12 19:09
trans-1,2-Dichloroethene	< .001	mg/l			WG594518	05/24/12 19:09
trans-1,3-Dichloropropene	< .001	mg/l			WG594518	05/24/12 19:09
Trichloroethene	< .001	mg/l			WG594518	05/24/12 19:09
Trichlorofluoromethane	< .005	mg/l			WG594518	05/24/12 19:09

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Quality Assurance Report
Level II

L576141

May 29, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Vinyl chloride	< .001	mg/l			WG594518	05/24/12 19:09
Xylenes, Total	< .003	mg/l			WG594518	05/24/12 19:09
4-Bromofluorobenzene		% Rec.	108.4	82-120	WG594518	05/24/12 19:09
Dibromofluoromethane		% Rec.	112.6	82-126	WG594518	05/24/12 19:09
Toluene-d8		% Rec.	106.7	92-112	WG594518	05/24/12 19:09
1,1-Dichloroethene	< .001	mg/l			WG594644	05/25/12 12:21
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG594644	05/25/12 12:21
1,2-Dichloropropane	< .001	mg/l			WG594644	05/25/12 12:21
Bromomethane	< .005	mg/l			WG594644	05/25/12 12:21
Methylene Chloride	< .005	mg/l			WG594644	05/25/12 12:21
4-Bromofluorobenzene		% Rec.	103.2	82-120	WG594644	05/25/12 12:21
Dibromofluoromethane		% Rec.	100.4	82-126	WG594644	05/25/12 12:21
Toluene-d8		% Rec.	102.2	92-112	WG594644	05/25/12 12:21
Antimony	< .001	mg/l			WG593974	05/25/12 14:40
Arsenic	< .001	mg/l			WG593974	05/25/12 14:40
Beryllium	< .001	mg/l			WG593974	05/25/12 14:40
Cadmium	< .0005	mg/l			WG593974	05/25/12 14:40
Chromium	< .002	mg/l			WG593974	05/25/12 14:40
Copper	< .002	mg/l			WG593974	05/25/12 14:40
Lead	< .001	mg/l			WG593974	05/25/12 14:40
Nickel	< .001	mg/l			WG593974	05/25/12 14:40
Selenium	< .001	mg/l			WG593974	05/25/12 14:40
Silver	< .001	mg/l			WG593974	05/25/12 14:40
Thallium	< .001	mg/l			WG593974	05/25/12 14:40
Zinc	< .01	mg/l			WG593974	05/25/12 14:40

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Antimony,Dissolved	mg/l	0	0	0	20	L576212-07	WG593943
Arsenic,Dissolved	mg/l	0.00340	0.00500	39.2*	20	L576212-07	WG593943
Cadmium,Dissolved	mg/l	0	0	0	20	L576212-07	WG593943
Chromium,Dissolved	mg/l	0	0.00294	NA	20	L576212-07	WG593943
Copper,Dissolved	mg/l	0	0.00144	NA	20	L576212-07	WG593943
Lead,Dissolved	mg/l	0	0	0	20	L576212-07	WG593943
Nickel,Dissolved	mg/l	0.0370	0.0358	2.21	20	L576212-07	WG593943
Selenium,Dissolved	mg/l	0.0180	0.0240	28.6*	20	L576212-07	WG593943
Silver,Dissolved	mg/l	0	0	0	20	L576212-07	WG593943
Thallium,Dissolved	mg/l	0	0	0	20	L576212-07	WG593943
Zinc,Dissolved	mg/l	0	0.00611	NA	20	L576212-07	WG593943
Mercury,Dissolved	mg/l	0	0	0	20	L576055-01	WG593809
Mercury	mg/l	0	0	0	20	L576098-11	WG593807
Beryllium,Dissolved	mg/l	0	0	0	20	L576538-04	WG594285
Antimony	mg/l	0	0	0	20	L576125-08	WG593974
Arsenic	mg/l	0.000810	0.000840	3.64	20	L576125-08	WG593974
Beryllium	mg/l	0	0	0	20	L576125-08	WG593974
Cadmium	mg/l	0	0	0	20	L576125-08	WG593974

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Level II

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May 29, 2012

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
			Duplicate				
Chromium	mg/l	0	0.000730	NA	20	L576125-08	WG593974
Copper	mg/l	0	0	0	20	L576125-08	WG593974
Lead	mg/l	0	0	0	20	L576125-08	WG593974
Nickel	mg/l	0	0	0	20	L576125-08	WG593974
Selenium	mg/l	0	0.000340	NA	20	L576125-08	WG593974
Silver	mg/l	0	0	0	20	L576125-08	WG593974
Thallium	mg/l	0	0	0	20	L576125-08	WG593974
Zinc	mg/l	0	0.00278	NA	20	L576125-08	WG593974

Analyte	Units	Known Val	Laboratory Control Sample Result	% Rec	Limit	Batch
Antimony,Dissolved	mg/l	.0567	0.0541	95.4	85-115	WG593943
Arsenic,Dissolved	mg/l	.0567	0.0524	92.4	85-115	WG593943
Cadmium,Dissolved	mg/l	.0567	0.0523	92.2	85-115	WG593943
Chromium,Dissolved	mg/l	.0567	0.0539	95.1	85-115	WG593943
Copper,Dissolved	mg/l	.0567	0.0532	93.8	85-115	WG593943
Lead,Dissolved	mg/l	.0567	0.0556	98.1	85-115	WG593943
Nickel,Dissolved	mg/l	.0567	0.0526	92.8	85-115	WG593943
Selenium,Dissolved	mg/l	.0567	0.0507	89.4	85-115	WG593943
Silver,Dissolved	mg/l	.0567	0.0506	89.2	85-115	WG593943
Thallium,Dissolved	mg/l	.0567	0.0532	93.8	85-115	WG593943
Zinc,Dissolved	mg/l	.0567	0.0552	97.4	85-115	WG593943
Mercury	mg/l	.003	0.00296	98.7	85-115	WG593807
Mercury,Dissolved	mg/l	.003	0.00322	107.	85-115	WG593809
1,1,1-Trichloroethane	mg/l	.025	0.0235	94.0	71-126	WG594414
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0240	95.9	78-130	WG594414
1,1,2-Trichloroethane	mg/l	.025	0.0246	98.5	81-121	WG594414
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0235	93.8	53-143	WG594414
1,1-Dichloroethane	mg/l	.025	0.0242	96.7	73-123	WG594414
1,1-Dichloroethene	mg/l	.025	0.0230	91.9	54-134	WG594414
1,2,3-Trichlorobenzene	mg/l	.025	0.0240	96.1	77-130	WG594414
1,2,4-Trichlorobenzene	mg/l	.025	0.0244	97.7	76-127	WG594414
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0261	105.	55-142	WG594414
1,2-Dibromoethane	mg/l	.025	0.0240	95.9	78-124	WG594414
1,2-Dichlorobenzene	mg/l	.025	0.0234	93.5	82-121	WG594414
1,2-Dichloroethane	mg/l	.025	0.0255	102.	69-128	WG594414
1,2-Dichloropropane	mg/l	.025	0.0242	96.9	77-121	WG594414
1,3-Dichlorobenzene	mg/l	.025	0.0233	93.3	77-127	WG594414
1,4-Dichlorobenzene	mg/l	.025	0.0226	90.3	79-117	WG594414
2-Butanone (MEK)	mg/l	.125	0.172	138.	58-144	WG594414
2-Hexanone	mg/l	.125	0.129	103.	62-144	WG594414
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.130	104.	58-147	WG594414
Acetone	mg/l	.125	0.183	146.	49-153	WG594414
Benzene	mg/l	.025	0.0244	97.4	72-119	WG594414
Bromochloromethane	mg/l	.025	0.0263	105.	79-124	WG594414
Bromodichloromethane	mg/l	.025	0.0239	95.7	75-127	WG594414
Bromoform	mg/l	.025	0.0246	98.6	61-136	WG594414
Bromomethane	mg/l	.025	0.0239	95.5	42-172	WG594414
Carbon disulfide	mg/l	.025	0.0301	120.	19-150	WG594414
Carbon tetrachloride	mg/l	.025	0.0233	93.0	63-129	WG594414
Chlorobenzene	mg/l	.025	0.0236	94.4	78-123	WG594414
Chlorodibromomethane	mg/l	.025	0.0239	95.8	73-128	WG594414

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Tax I.D. 62-0814289

Est. 1970

SLR International Corp. - West Linn, OR
Chris Kramer
1800 Blankenship Road, Suite 440

West Linn, OR 97068

Quality Assurance Report
Level II

L576141

May 29, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Chloroethane	mg/l	.025	0.0229	91.7	52-164	WG594414
Chloroform	mg/l	.025	0.0251	101.	76-122	WG594414
Chloromethane	mg/l	.025	0.0239	95.5	50-141	WG594414
cis-1,2-Dichloroethene	mg/l	.025	0.0244	97.7	75-121	WG594414
cis-1,3-Dichloropropene	mg/l	.025	0.0240	96.1	74-124	WG594414
Dichlorodifluoromethane	mg/l	.025	0.0246	98.3	33-173	WG594414
Ethylbenzene	mg/l	.025	0.0233	93.1	77-124	WG594414
Isopropylbenzene	mg/l	.025	0.0250	99.9	74-126	WG594414
Methyl tert-butyl ether	mg/l	.025	0.0270	108.	67-127	WG594414
Methylene Chloride	mg/l	.025	0.0264	106.	67-122	WG594414
n-Propylbenzene	mg/l	.025	0.0227	90.8	77-125	WG594414
Styrene	mg/l	.025	0.0230	91.9	69-145	WG594414
Tetrachloroethene	mg/l	.025	0.0212	85.0	69-131	WG594414
Toluene	mg/l	.025	0.0232	92.7	75-114	WG594414
trans-1,2-Dichloroethene	mg/l	.025	0.0234	93.7	63-127	WG594414
Trichloroethene	mg/l	.025	0.0230	91.9	69-131	WG594414
Trichlorofluoromethane	mg/l	.025	0.0224	89.6	53-161	WG594414
Vinyl chloride	mg/l	.025	0.0227	91.0	55-142	WG594414
Xylenes, Total	mg/l	.075	0.0691	92.2	77-123	WG594414
4-Bromofluorobenzene				102.7	82-120	WG594414
Dibromofluoromethane				109.5	82-126	WG594414
Toluene-d8				107.4	92-112	WG594414
Beryllium,Dissolved	mg/l	.0567	0.0532	93.8	85-115	WG594285
1,1,1-Trichloroethane	mg/l	.025	0.0270	108.	71-126	WG594518
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0310	124.	78-130	WG594518
1,1,2-Trichloroethane	mg/l	.025	0.0285	114.	81-121	WG594518
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0263	105.	53-143	WG594518
1,1-Dichloroethane	mg/l	.025	0.0276	110.	73-123	WG594518
1,2,3-Trichlorobenzene	mg/l	.025	0.0290	116.	77-130	WG594518
1,2,4-Trichlorobenzene	mg/l	.025	0.0295	118.	76-127	WG594518
1,2-Dibromoethane	mg/l	.025	0.0286	115.	78-124	WG594518
1,2-Dichlorobenzene	mg/l	.025	0.0290	116.	82-121	WG594518
1,2-Dichloroethane	mg/l	.025	0.0274	110.	69-128	WG594518
1,3-Dichlorobenzene	mg/l	.025	0.0284	114.	77-127	WG594518
1,4-Dichlorobenzene	mg/l	.025	0.0283	113.	79-117	WG594518
2-Butanone (MEK)	mg/l	.125	0.176	141.	58-144	WG594518
2-Hexanone	mg/l	.125	0.186	149.*	62-144	WG594518
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.149	120.	58-147	WG594518
Acetone	mg/l	.125	0.178	142.	49-153	WG594518
Benzene	mg/l	.025	0.0275	110.	72-119	WG594518
Bromochloromethane	mg/l	.025	0.0256	102.	79-124	WG594518
Bromodichloromethane	mg/l	.025	0.0242	96.9	75-127	WG594518
Bromoform	mg/l	.025	0.0295	118.	61-136	WG594518
Carbon disulfide	mg/l	.025	0.0242	96.9	19-150	WG594518
Carbon tetrachloride	mg/l	.025	0.0266	106.	63-129	WG594518
Chlorobenzene	mg/l	.025	0.0275	110.	78-123	WG594518
Chlorodibromomethane	mg/l	.025	0.0281	112.	73-128	WG594518
Chloroethane	mg/l	.025	0.0212	84.8	52-164	WG594518
Chloroform	mg/l	.025	0.0269	108.	76-122	WG594518
Chloromethane	mg/l	.025	0.0231	92.2	50-141	WG594518
cis-1,2-Dichloroethene	mg/l	.025	0.0264	105.	75-121	WG594518
cis-1,3-Dichloropropene	mg/l	.025	0.0265	106.	74-124	WG594518
Dichlorodifluoromethane	mg/l	.025	0.0218	87.1	33-173	WG594518
Ethylbenzene	mg/l	.025	0.0269	107.	77-124	WG594518
Isopropylbenzene	mg/l	.025	0.0290	116.	74-126	WG594518

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Level II

L576141

May 29, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Methyl tert-butyl ether	mg/l	.025	0.0275	110.	67-127	WG594518
n-Propylbenzene	mg/l	.025	0.0282	113.	77-125	WG594518
Styrene	mg/l	.025	0.0286	114.	69-145	WG594518
Tetrachloroethene	mg/l	.025	0.0244	97.6	69-131	WG594518
Toluene	mg/l	.025	0.0241	96.3	75-114	WG594518
trans-1,2-Dichloroethene	mg/l	.025	0.0254	102.	63-127	WG594518
trans-1,3-Dichloropropene	mg/l	.025	0.0268	107.	69-124	WG594518
Trichloroethene	mg/l	.025	0.0236	94.3	69-131	WG594518
Trichlorofluoromethane	mg/l	.025	0.0239	95.7	53-161	WG594518
Vinyl chloride	mg/l	.025	0.0232	92.9	55-142	WG594518
Xylenes, Total	mg/l	.075	0.0805	107.	77-123	WG594518
4-Bromofluorobenzene				105.4	82-120	WG594518
Dibromofluoromethane				111.1	82-126	WG594518
Toluene-d8				104.7	92-112	WG594518
1,1-Dichloroethene	mg/l	.025	0.0243	97.2	54-134	WG594644
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0215	86.1	55-142	WG594644
1,2-Dichloropropane	mg/l	.025	0.0233	93.4	77-121	WG594644
Bromomethane	mg/l	.025	0.0243	97.1	42-172	WG594644
Methylene Chloride	mg/l	.025	0.0227	90.9	67-122	WG594644
4-Bromofluorobenzene				98.35	82-120	WG594644
Dibromofluoromethane				103.1	82-126	WG594644
Toluene-d8				102.6	92-112	WG594644
Antimony	mg/l	.0567	0.0579	102.	85-115	WG593974
Arsenic	mg/l	.0567	0.0587	104.	85-115	WG593974
Beryllium	mg/l	.0567	0.0567	100.	85-115	WG593974
Cadmium	mg/l	.0567	0.0578	102.	85-115	WG593974
Chromium	mg/l	.0567	0.0586	103.	85-115	WG593974
Copper	mg/l	.0567	0.0595	105.	85-115	WG593974
Lead	mg/l	.0567	0.0578	102.	85-115	WG593974
Nickel	mg/l	.0567	0.0594	105.	85-115	WG593974
Selenium	mg/l	.0567	0.0571	101.	85-115	WG593974
Silver	mg/l	.0567	0.0567	100.	85-115	WG593974
Thallium	mg/l	.0567	0.0563	99.3	85-115	WG593974
Zinc	mg/l	.0567	0.0651	115.	85-115	WG593974

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1-Trichloroethane	mg/l	0.0282	0.0235	113.	71-126	18.3	20	WG594414
1,1,2,2-Tetrachloroethane	mg/l	0.0234	0.0240	94.0	78-130	2.44	20	WG594414
1,1,2-Trichloroethane	mg/l	0.0240	0.0246	96.0	81-121	2.52	20	WG594414
1,1,2-Trichlorotrifluoroethane	mg/l	0.0325	0.0235	130.	53-143	32.4*	20	WG594414
1,1-Dichloroethane	mg/l	0.0269	0.0242	108.	73-123	10.7	20	WG594414
1,1-Dichloroethene	mg/l	0.0281	0.0230	112.	54-134	20.2*	20	WG594414
1,2,3-Trichlorobenzene	mg/l	0.0250	0.0240	100.	77-130	4.16	20	WG594414
1,2,4-Trichlorobenzene	mg/l	0.0267	0.0244	107.	76-127	9.06	20	WG594414
1,2-Dibromo-3-Chloropropane	mg/l	0.0238	0.0261	95.0	55-142	9.55	20	WG594414
1,2-Dibromoethane	mg/l	0.0228	0.0240	91.0	78-124	5.05	20	WG594414
1,2-Dichlorobenzene	mg/l	0.0244	0.0234	98.0	82-121	4.41	20	WG594414
1,2-Dichloroethane	mg/l	0.0252	0.0255	101.	69-128	1.17	20	WG594414
1,2-Dichloropropane	mg/l	0.0244	0.0242	98.0	77-121	0.650	20	WG594414
1,3-Dichlorobenzene	mg/l	0.0246	0.0233	98.0	77-127	5.54	20	WG594414
1,4-Dichlorobenzene	mg/l	0.0241	0.0226	96.0	79-117	6.68	20	WG594414
2-Butanone (MEK)	mg/l	0.160	0.172	128.	58-144	7.48	20	WG594414
2-Hexanone	mg/l	0.122	0.129	97.0	62-144	5.65	20	WG594414

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Level II

May 29, 2012

L576141

		Laboratory Control Sample						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
4-Methyl-2-pentanone (MIBK)	mg/l	0.122	0.130	98.0	58-147	5.90	20	WG594414
Acetone	mg/l	0.179	0.183	143.	49-153	2.07	21	WG594414
Benzene	mg/l	0.0263	0.0244	105.	72-119	7.71	20	WG594414
Bromochloromethane	mg/l	0.0260	0.0263	104.	79-124	1.17	20	WG594414
Bromodichloromethane	mg/l	0.0250	0.0239	100.	75-127	4.37	20	WG594414
Bromoform	mg/l	0.0240	0.0246	96.0	61-136	2.72	20	WG594414
Bromomethane	mg/l	0.0271	0.0239	108.	42-172	12.6	20	WG594414
Carbon disulfide	mg/l	0.0361	0.0301	144.	19-150	18.2	20	WG594414
Carbon tetrachloride	mg/l	0.0286	0.0233	114.	63-129	20.7*	20	WG594414
Chlorobenzene	mg/l	0.0243	0.0236	97.0	78-123	3.10	20	WG594414
Chlorodibromomethane	mg/l	0.0236	0.0239	94.0	73-128	1.35	20	WG594414
Chloroethane	mg/l	0.0272	0.0229	109.	52-164	17.2	20	WG594414
Chloroform	mg/l	0.0269	0.0251	107.	76-122	6.63	20	WG594414
Chloromethane	mg/l	0.0272	0.0239	109.	50-141	13.2	20	WG594414
cis-1,2-Dichloroethene	mg/l	0.0265	0.0244	106.	75-121	8.20	20	WG594414
cis-1,3-Dichloropropene	mg/l	0.0245	0.0240	98.0	74-124	1.86	20	WG594414
Dichlorodifluoromethane	mg/l	0.0347	0.0246	139.	33-173	34.1*	20	WG594414
Ethylbenzene	mg/l	0.0263	0.0233	105.	77-124	12.2	20	WG594414
Isopropylbenzene	mg/l	0.0290	0.0250	116.	74-126	15.1	20	WG594414
Methyl tert-butyl ether	mg/l	0.0271	0.0270	108.	67-127	0.610	20	WG594414
Methylene Chloride	mg/l	0.0287	0.0264	115.	67-122	8.18	20	WG594414
n-Propylbenzene	mg/l	0.0266	0.0227	106.	77-125	15.7	20	WG594414
Styrene	mg/l	0.0241	0.0230	96.0	69-145	4.89	20	WG594414
Tetrachloroethene	mg/l	0.0252	0.0212	101.	69-131	17.0	20	WG594414
Toluene	mg/l	0.0257	0.0232	103.	75-114	10.2	20	WG594414
trans-1,2-Dichloroethene	mg/l	0.0265	0.0234	106.	63-127	12.5	20	WG594414
Trichloroethene	mg/l	0.0261	0.0230	104.	69-131	12.9	20	WG594414
Trichlorofluoromethane	mg/l	0.0288	0.0224	115.	53-161	25.0*	20	WG594414
Vinyl chloride	mg/l	0.0285	0.0227	114.	55-142	22.5*	20	WG594414
Xylenes, Total	mg/l	0.0766	0.0691	102.	77-123	10.2	20	WG594414
4-Bromofluorobenzene				99.15	82-120			WG594414
Dibromofluoromethane				108.5	82-126			WG594414
Toluene-d8				106.6	92-112			WG594414
1,1,1-Trichloroethane	mg/l	0.0267	0.0270	107.	71-126	0.990	20	WG594518
1,1,2,2-Tetrachloroethane	mg/l	0.0265	0.0310	106.	78-130	15.8	20	WG594518
1,1,2-Trichloroethane	mg/l	0.0258	0.0285	103.	81-121	9.79	20	WG594518
1,1,2-Trichlorotrifluoroethane	mg/l	0.0265	0.0263	106.	53-143	0.610	20	WG594518
1,1-Dichloroethane	mg/l	0.0269	0.0276	108.	73-123	2.41	20	WG594518
1,2,3-Trichlorobenzene	mg/l	0.0243	0.0290	97.0	77-130	17.7	20	WG594518
1,2,4-Trichlorobenzene	mg/l	0.0258	0.0295	103.	76-127	13.6	20	WG594518
1,2-Dibromoethane	mg/l	0.0267	0.0286	107.	78-124	6.91	20	WG594518
1,2-Dichlorobenzene	mg/l	0.0249	0.0290	100.	82-121	15.2	20	WG594518
1,2-Dichloroethane	mg/l	0.0268	0.0274	107.	69-128	2.29	20	WG594518
1,3-Dichlorobenzene	mg/l	0.0250	0.0284	100.	77-127	12.7	20	WG594518
1,4-Dichlorobenzene	mg/l	0.0249	0.0283	100.	79-117	12.5	20	WG594518
2-Butanone (MEK)	mg/l	0.168	0.176	135.	58-144	4.62	20	WG594518
2-Hexanone	mg/l	0.160	0.186	128.	62-144	15.4	20	WG594518
4-Methyl-2-pentanone (MIBK)	mg/l	0.135	0.149	108.	58-147	10.2	20	WG594518
Acetone	mg/l	0.179	0.178	143.	49-153	0.600	21	WG594518
Benzene	mg/l	0.0270	0.0275	108.	72-119	1.73	20	WG594518
Bromochloromethane	mg/l	0.0249	0.0256	100.	79-124	2.92	20	WG594518
Bromodichloromethane	mg/l	0.0236	0.0242	94.0	75-127	2.71	20	WG594518
Bromoform	mg/l	0.0249	0.0295	100.	61-136	16.7	20	WG594518
Carbon disulfide	mg/l	0.0232	0.0242	93.0	19-150	4.22	20	WG594518
Carbon tetrachloride	mg/l	0.0263	0.0266	105.	63-129	0.900	20	WG594518
Chlorobenzene	mg/l	0.0262	0.0275	105.	78-123	5.11	20	WG594518
Chlorodibromomethane	mg/l	0.0255	0.0281	102.	73-128	9.65	20	WG594518

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L576141

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Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chloroethane	mg/l	0.0206	0.0212	82.0	52-164	2.98	20	WG594518
Chloroform	mg/l	0.0266	0.0269	106.	76-122	0.940	20	WG594518
Chloromethane	mg/l	0.0214	0.0231	86.0	50-141	7.25	20	WG594518
cis-1,2-Dichloroethene	mg/l	0.0256	0.0264	102.	75-121	2.82	20	WG594518
cis-1,3-Dichloropropene	mg/l	0.0252	0.0265	101.	74-124	5.07	20	WG594518
Dichlorodifluoromethane	mg/l	0.0190	0.0218	76.0	33-173	13.7	20	WG594518
Ethylbenzene	mg/l	0.0263	0.0269	105.	77-124	2.30	20	WG594518
Isopropylbenzene	mg/l	0.0275	0.0290	110.	74-126	5.02	20	WG594518
Methyl tert-butyl ether	mg/l	0.0270	0.0275	108.	67-127	1.75	20	WG594518
n-Propylbenzene	mg/l	0.0266	0.0282	106.	77-125	5.85	20	WG594518
Styrene	mg/l	0.0262	0.0286	105.	69-145	8.66	20	WG594518
Tetrachloroethene	mg/l	0.0243	0.0244	97.0	69-131	0.370	20	WG594518
Toluene	mg/l	0.0238	0.0241	95.0	75-114	1.13	20	WG594518
trans-1,2-Dichloroethene	mg/l	0.0251	0.0254	100.	63-127	1.11	20	WG594518
trans-1,3-Dichloropropene	mg/l	0.0252	0.0268	101.	69-124	6.15	20	WG594518
Trichloroethene	mg/l	0.0236	0.0236	94.0	69-131	0.230	20	WG594518
Trichlorofluoromethane	mg/l	0.0234	0.0239	94.0	53-161	2.09	20	WG594518
Vinyl chloride	mg/l	0.0217	0.0232	87.0	55-142	6.75	20	WG594518
Xylenes, Total	mg/l	0.0776	0.0805	103.	77-123	3.64	20	WG594518
4-Bromofluorobenzene				106.0	82-120			WG594518
Dibromofluoromethane				112.5	82-126			WG594518
Toluene-d8				104.7	92-112			WG594518
1,1-Dichloroethene	mg/l	0.0200	0.0243	80.0	54-134	19.6	20	WG594644
1,2-Dibromo-3-Chloropropane	mg/l	0.0220	0.0215	88.0	55-142	2.03	20	WG594644
1,2-Dichloropropane	mg/l	0.0236	0.0233	94.0	77-121	1.20	20	WG594644
Bromomethane	mg/l	0.0255	0.0243	102.	42-172	4.80	20	WG594644
Methylene Chloride	mg/l	0.0233	0.0227	93.0	67-122	2.36	20	WG594644
4-Bromofluorobenzene				100.0	82-120			WG594644
Dibromofluoromethane				104.4	82-126			WG594644
Toluene-d8				102.9	92-112			WG594644

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Antimony,Dissolved	mg/l	0.0579	0	.0567	102.	75-125	L576212-07	WG593943
Arsenic,Dissolved	mg/l	0.0617	0.00500	.0567	100.	75-125	L576212-07	WG593943
Cadmium,Dissolved	mg/l	0.0553	0	.0567	97.5	75-125	L576212-07	WG593943
Chromium,Dissolved	mg/l	0.0555	0.00294	.0567	92.7	75-125	L576212-07	WG593943
Copper,Dissolved	mg/l	0.0488	0.00144	.0567	83.5	75-125	L576212-07	WG593943
Lead,Dissolved	mg/l	0.0510	0	.0567	89.9	75-125	L576212-07	WG593943
Nickel,Dissolved	mg/l	0.0854	0.0358	.0567	87.5	75-125	L576212-07	WG593943
Selenium,Dissolved	mg/l	0.0808	0.0240	.0567	100.	75-125	L576212-07	WG593943
Silver,Dissolved	mg/l	0.0501	0	.0567	88.4	75-125	L576212-07	WG593943
Thallium,Dissolved	mg/l	0.0523	0	.0567	92.2	75-125	L576212-07	WG593943
Zinc,Dissolved	mg/l	0.0581	0.00611	.0567	91.7	75-125	L576212-07	WG593943
Mercury,Dissolved	mg/l	0.00332	0	.003	111.	70-130	L576055-01	WG593809
Mercury	mg/l	0.00303	0	.003	101.	70-130	L576098-11	WG593807
Beryllium,Dissolved	mg/l	0.0569	0	.0567	100.	75-125	L576538-04	WG594285
1,1,1-Trichloroethane	mg/l	0.0440	0.0252	.025	75.2	58-137	L576704-18	WG594414

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Est. 1970

SLR International Corp. - West Linn, OR
Chris Kramer
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West Linn, OR 97068

Quality Assurance Report
Level II

May 29, 2012

L576141

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,2,2-Tetrachloroethane	mg/l	0.0314	0	.025	126.	64-149	L576704-18	WG594414
1,1,2-Trichloroethane	mg/l	0.0270	0	.025	108.	73-128	L576704-18	WG594414
1,1,2-Trichlorotrifluoroethane	mg/l	0.0283	0	.025	113.	36-159	L576704-18	WG594414
1,1-Dichloroethane	mg/l	0.0245	0.00198	.025	90.0	58-133	L576704-18	WG594414
1,1-Dichloroethene	mg/l	0.0266	0.00226	.025	97.3	32-152	L576704-18	WG594414
1,2,3-Trichlorobenzene	mg/l	0.0272	0	.025	109.	68-135	L576704-18	WG594414
1,2,4-Trichlorobenzene	mg/l	0.0270	0	.025	108.	67-133	L576704-18	WG594414
1,2-Dibromo-3-Chloropropane	mg/l	0.0304	0	.025	122.	55-148	L576704-18	WG594414
1,2-Dibromoethane	mg/l	0.0270	0	.025	108.	71-129	L576704-18	WG594414
1,2-Dichlorobenzene	mg/l	0.0265	0	.025	106.	75-125	L576704-18	WG594414
1,2-Dichloroethane	mg/l	0.0242	0	.025	97.0	59-135	L576704-18	WG594414
1,2-Dichloropropane	mg/l	0.0247	0	.025	99.0	68-126	L576704-18	WG594414
1,3-Dichlorobenzene	mg/l	0.0256	0	.025	102.	69-131	L576704-18	WG594414
1,4-Dichlorobenzene	mg/l	0.0261	0	.025	104.	70-123	L576704-18	WG594414
2-Butanone (MEK)	mg/l	0.107	0	.125	85.2	51-149	L576704-18	WG594414
2-Hexanone	mg/l	0.144	0	.125	115.	58-148	L576704-18	WG594414
4-Methyl-2-pentanone (MIBK)	mg/l	0.150	0	.125	120.	53-154	L576704-18	WG594414
Acetone	mg/l	0.0760	0.00523	.125	56.6	34-146	L576704-18	WG594414
Benzene	mg/l	0.0224	0	.025	89.6	51-134	L576704-18	WG594414
Bromochloromethane	mg/l	0.0243	0	.025	97.1	67-131	L576704-18	WG594414
Bromodichloromethane	mg/l	0.0247	0	.025	98.8	67-132	L576704-18	WG594414
Bromoform	mg/l	0.0296	0	.025	118.	59-137	L576704-18	WG594414
Bromomethane	mg/l	0.0184	0	.025	73.6	23-177	L576704-18	WG594414
Carbon disulfide	mg/l	0.0226	0.000555	.025	88.1	10-165	L576704-18	WG594414
Carbon tetrachloride	mg/l	0.0234	0	.025	93.6	49-140	L576704-18	WG594414
Chlorobenzene	mg/l	0.0261	0	.025	104.	69-126	L576704-18	WG594414
Chlorodibromomethane	mg/l	0.0273	0	.025	109.	68-130	L576704-18	WG594414
Chloroethane	mg/l	0.0227	0	.025	91.0	32-177	L576704-18	WG594414
Chloroform	mg/l	0.0240	0	.025	96.2	64-130	L576704-18	WG594414
Chloromethane	mg/l	0.0159	0	.025	63.7	27-155	L576704-18	WG594414
cis-1,2-Dichloroethene	mg/l	0.0243	0	.025	97.1	54-137	L576704-18	WG594414
cis-1,3-Dichloropropene	mg/l	0.0249	0	.025	99.4	63-127	L576704-18	WG594414
Dichlorodifluoromethane	mg/l	0.0167	0	.025	66.9	16-188	L576704-18	WG594414
Ethylbenzene	mg/l	0.0261	0	.025	104.	64-135	L576704-18	WG594414
Isopropylbenzene	mg/l	0.0277	0	.025	111.	62-134	L576704-18	WG594414
Methyl tert-butyl ether	mg/l	0.0251	0	.025	100.	55-136	L576704-18	WG594414
Methylene Chloride	mg/l	0.0229	0	.025	91.6	52-130	L576704-18	WG594414
n-Propylbenzene	mg/l	0.0267	0.000911	.025	103.	62-137	L576704-18	WG594414
Styrene	mg/l	0.0263	0	.025	105.	58-152	L576704-18	WG594414
Tetrachloroethene	mg/l	0.0262	0	.025	105.	56-139	L576704-18	WG594414
Toluene	mg/l	0.0238	0	.025	95.0	61-126	L576704-18	WG594414
trans-1,2-Dichloroethene	mg/l	0.0219	0	.025	87.6	45-137	L576704-18	WG594414
Trichloroethene	mg/l	0.0245	0	.025	98.1	40-155	L576704-18	WG594414
Trichlorofluoromethane	mg/l	0.0242	0	.025	96.6	35-177	L576704-18	WG594414
Vinyl chloride	mg/l	0.0197	0	.025	78.9	32-159	L576704-18	WG594414
Xylenes, Total	mg/l	0.0768	0	.075	102.	64-133	L576704-18	WG594414
1,1,1-Trichloroethane	mg/l	0.0271	0.000430	.025	107.	58-137	L576663-01	WG594518
1,1,2,2-Tetrachloroethane	mg/l	0.0248	0	.025	99.4	64-149	L576663-01	WG594518
1,1,2-Trichloroethane	mg/l	0.0242	0	.025	96.7	73-128	L576663-01	WG594518
1,1,2-Trichlorotrifluoroethane	mg/l	0.0262	0	.025	105.	36-159	L576663-01	WG594518
1,1-Dichloroethane	mg/l	0.0274	0	.025	109.	58-133	L576663-01	WG594518
1,2,3-Trichlorobenzene	mg/l	0.0234	0	.025	93.6	68-135	L576663-01	WG594518
1,2,4-Trichlorobenzene	mg/l	0.0245	0	.025	97.9	67-133	L576663-01	WG594518
1,2-Dibromoethane	mg/l	0.0254	0	.025	102.	71-129	L576663-01	WG594518
1,2-Dichlorobenzene	mg/l	0.0238	0	.025	95.1	75-125	L576663-01	WG594518
1,2-Dichloroethane	mg/l	0.0271	0	.025	108.	59-135	L576663-01	WG594518
1,3-Dichlorobenzene	mg/l	0.0234	0	.025	93.6	69-131	L576663-01	WG594518

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Quality Assurance Report
Level II

May 29, 2012

L576141

		Matrix Spike						
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,4-Dichlorobenzene	mg/l	0.0234	0	.025	93.5	70-123	L576663-01	WG594518
2-Butanone (MEK)	mg/l	0.120	0	.125	95.9	51-149	L576663-01	WG594518
2-Hexanone	mg/l	0.116	0	.125	92.7	58-148	L576663-01	WG594518
4-Methyl-2-pentanone (MIBK)	mg/l	0.123	0	.125	98.3	53-154	L576663-01	WG594518
Acetone	mg/l	0.0819	0	.125	65.5	34-146	L576663-01	WG594518
Benzene	mg/l	0.0265	0	.025	106.	51-134	L576663-01	WG594518
Bromochloromethane	mg/l	0.0253	0	.025	101.	67-131	L576663-01	WG594518
Bromodichloromethane	mg/l	0.0230	0	.025	91.8	67-132	L576663-01	WG594518
Bromoform	mg/l	0.0241	0	.025	96.3	59-137	L576663-01	WG594518
Carbon disulfide	mg/l	0.0228	0	.025	91.4	10-165	L576663-01	WG594518
Carbon tetrachloride	mg/l	0.0259	0	.025	104.	49-140	L576663-01	WG594518
Chlorobenzene	mg/l	0.0247	0	.025	98.8	69-126	L576663-01	WG594518
Chlorodibromomethane	mg/l	0.0242	0	.025	96.7	68-130	L576663-01	WG594518
Chloroethane	mg/l	0.0201	0	.025	80.5	32-177	L576663-01	WG594518
Chloroform	mg/l	0.0266	0	.025	106.	64-130	L576663-01	WG594518
Chloromethane	mg/l	0.0221	0	.025	88.5	27-155	L576663-01	WG594518
cis-1,2-Dichloroethene	mg/l	0.0259	0.000350	.025	102.	54-137	L576663-01	WG594518
cis-1,3-Dichloropropene	mg/l	0.0244	0	.025	97.5	63-127	L576663-01	WG594518
Dichlorodifluoromethane	mg/l	0.0228	0	.025	91.0	16-188	L576663-01	WG594518
Ethylbenzene	mg/l	0.0245	0	.025	97.8	64-135	L576663-01	WG594518
Isopropylbenzene	mg/l	0.0258	0	.025	103.	62-134	L576663-01	WG594518
Methyl tert-butyl ether	mg/l	0.0273	0	.025	109.	55-136	L576663-01	WG594518
n-Propylbenzene	mg/l	0.0250	0	.025	100.	62-137	L576663-01	WG594518
Styrene	mg/l	0.0242	0	.025	96.6	58-152	L576663-01	WG594518
Tetrachloroethene	mg/l	0.0241	0.00150	.025	90.5	56-139	L576663-01	WG594518
Toluene	mg/l	0.0226	0	.025	90.2	61-126	L576663-01	WG594518
trans-1,2-Dichloroethene	mg/l	0.0245	0	.025	98.0	45-137	L576663-01	WG594518
trans-1,3-Dichloropropene	mg/l	0.0240	0	.025	96.1	59-130	L576663-01	WG594518
Trichloroethene	mg/l	0.0257	0.00370	.025	88.1	40-155	L576663-01	WG594518
Trichlorofluoromethane	mg/l	0.0235	0	.025	94.0	35-177	L576663-01	WG594518
Vinyl chloride	mg/l	0.0224	0	.025	89.5	32-159	L576663-01	WG594518
Xylenes, Total	mg/l	0.0729	0	.075	97.2	64-133	L576663-01	WG594518
4-Bromofluorobenzene					103.9	82-120		WG594518
Dibromofluoromethane					116.8	82-126		WG594518
Toluene-d8					104.9	92-112		WG594518
1,1-Dichloroethene	mg/l	0.0238	0	.025	95.3	32-152	L577010-03	WG594644
1,2-Dibromo-3-Chloropropane	mg/l	0.0233	0	.025	93.3	55-148	L577010-03	WG594644
1,2-Dichloropropane	mg/l	0.0230	0	.025	92.1	68-126	L577010-03	WG594644
Bromomethane	mg/l	0.0239	0	.025	95.6	23-177	L577010-03	WG594644
Methylene Chloride	mg/l	0.0227	0	.025	90.6	52-130	L577010-03	WG594644
4-Bromofluorobenzene					102.4	82-120		WG594644
Dibromofluoromethane					102.7	82-126		WG594644
Toluene-d8					102.3	92-112		WG594644
Antimony	mg/l	0.0597	0	.0567	105.	75-125	L576125-08	WG593974
Arsenic	mg/l	0.0608	0.000840	.0567	106.	75-125	L576125-08	WG593974
Beryllium	mg/l	0.0571	0	.0567	101.	75-125	L576125-08	WG593974
Cadmium	mg/l	0.0597	0	.0567	105.	75-125	L576125-08	WG593974
Chromium	mg/l	0.0609	0.000730	.0567	106.	75-125	L576125-08	WG593974
Copper	mg/l	0.0598	0	.0567	105.	75-125	L576125-08	WG593974
Lead	mg/l	0.0578	0	.0567	102.	75-125	L576125-08	WG593974
Nickel	mg/l	0.0608	0	.0567	107.	75-125	L576125-08	WG593974
Selenium	mg/l	0.0584	0.000340	.0567	102.	75-125	L576125-08	WG593974
Silver	mg/l	0.0769	0	.0567	136.*	75-125	L576125-08	WG593974
Thallium	mg/l	0.0566	0	.0567	99.8	75-125	L576125-08	WG593974
Zinc	mg/l	0.0683	0.00278	.0567	116.	75-125	L576125-08	WG593974

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West Linn, OR 97068

Quality Assurance Report
Level II

May 29, 2012

L576141

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Antimony,Dissolved	mg/l	0.0610	0.0579	108.	75-125	5.21	20	L576212-07	WG593943
Arsenic,Dissolved	mg/l	0.0585	0.0617	94.4	75-125	5.32	20	L576212-07	WG593943
Cadmium,Dissolved	mg/l	0.0575	0.0553	101.	75-125	3.90	20	L576212-07	WG593943
Chromium,Dissolved	mg/l	0.0558	0.0555	93.2	75-125	0.539	20	L576212-07	WG593943
Copper,Dissolved	mg/l	0.0512	0.0488	87.8	75-125	4.80	20	L576212-07	WG593943
Lead,Dissolved	mg/l	0.0527	0.0510	92.9	75-125	3.28	20	L576212-07	WG593943
Nickel,Dissolved	mg/l	0.0903	0.0854	96.1	75-125	5.58	20	L576212-07	WG593943
Selenium,Dissolved	mg/l	0.0672	0.0808	76.2	75-125	18.4	20	L576212-07	WG593943
Silver,Dissolved	mg/l	0.0525	0.0501	92.6	75-125	4.68	20	L576212-07	WG593943
Thallium,Dissolved	mg/l	0.0544	0.0523	95.9	75-125	3.94	20	L576212-07	WG593943
Zinc,Dissolved	mg/l	0.0605	0.0581	95.9	75-125	4.05	20	L576212-07	WG593943
Mercury,Dissolved	mg/l	0.00347	0.00332	116.	70-130	4.42	20	L576055-01	WG593809
Mercury	mg/l	0.00310	0.00303	103.	70-130	2.28	20	L576098-11	WG593807
Beryllium,Dissolved	mg/l	0.0538	0.0569	94.9	75-125	5.60	20	L576538-04	WG594285
1,1,1-Trichloroethane	mg/l	0.0449	0.0440	79.0	58-137	2.14	20	L576704-18	WG594414
1,1,2,2-Tetrachloroethane	mg/l	0.0332	0.0314	133.	64-149	5.43	20	L576704-18	WG594414
1,1,2-Trichloroethane	mg/l	0.0281	0.0270	112.	73-128	4.17	20	L576704-18	WG594414
1,1,2-Trichlorotrifluoroethane	mg/l	0.0270	0.0283	108.	36-159	4.46	21	L576704-18	WG594414
1,1-Dichloroethane	mg/l	0.0237	0.0245	86.8	58-133	3.30	20	L576704-18	WG594414
1,1-Dichloroethene	mg/l	0.0251	0.0266	91.4	32-152	5.67	20	L576704-18	WG594414
1,2,3-Trichlorobenzene	mg/l	0.0273	0.0272	109.	68-135	0.150	20	L576704-18	WG594414
1,2,4-Trichlorobenzene	mg/l	0.0271	0.0270	108.	67-133	0.660	20	L576704-18	WG594414
1,2-Dibromo-3-Chloropropane	mg/l	0.0324	0.0304	130.	55-148	6.35	22	L576704-18	WG594414
1,2-Dibromoethane	mg/l	0.0278	0.0270	111.	71-129	3.08	20	L576704-18	WG594414
1,2-Dichlorobenzene	mg/l	0.0272	0.0265	109.	75-125	2.43	20	L576704-18	WG594414
1,2-Dichloroethane	mg/l	0.0250	0.0242	99.8	59-135	2.90	20	L576704-18	WG594414
1,2-Dichloropropane	mg/l	0.0243	0.0247	97.3	68-126	1.77	20	L576704-18	WG594414
1,3-Dichlorobenzene	mg/l	0.0273	0.0256	109.	69-131	6.47	20	L576704-18	WG594414
1,4-Dichlorobenzene	mg/l	0.0264	0.0261	105.	70-123	0.880	20	L576704-18	WG594414
2-Butanone (MEK)	mg/l	0.119	0.107	95.1	51-149	11.0	22	L576704-18	WG594414
2-Hexanone	mg/l	0.161	0.144	129.	58-148	10.9	24	L576704-18	WG594414
4-Methyl-2-pentanone (MIBK)	mg/l	0.161	0.150	129.	53-154	7.25	21	L576704-18	WG594414
Acetone	mg/l	0.0843	0.0760	63.3	34-146	10.3	22	L576704-18	WG594414
Benzene	mg/l	0.0219	0.0224	87.5	51-134	2.38	20	L576704-18	WG594414
Bromochloromethane	mg/l	0.0235	0.0243	94.2	67-131	3.11	20	L576704-18	WG594414
Bromodichloromethane	mg/l	0.0251	0.0247	100.	67-132	1.75	20	L576704-18	WG594414
Bromoform	mg/l	0.0316	0.0296	126.	59-137	6.53	20	L576704-18	WG594414
Bromomethane	mg/l	0.0174	0.0184	69.6	23-177	5.55	21	L576704-18	WG594414
Carbon disulfide	mg/l	0.0217	0.0226	84.6	10-165	3.96	22	L576704-18	WG594414
Carbon tetrachloride	mg/l	0.0241	0.0234	96.5	49-140	3.03	20	L576704-18	WG594414
Chlorobenzene	mg/l	0.0266	0.0261	106.	69-126	1.86	20	L576704-18	WG594414
Chlorodibromomethane	mg/l	0.0289	0.0273	116.	68-130	5.89	20	L576704-18	WG594414
Chloroethane	mg/l	0.0222	0.0227	88.9	32-177	2.24	21	L576704-18	WG594414
Chloroform	mg/l	0.0237	0.0240	94.6	64-130	1.60	20	L576704-18	WG594414
Chloromethane	mg/l	0.0148	0.0159	59.1	27-155	7.57	20	L576704-18	WG594414
cis-1,2-Dichloroethene	mg/l	0.0237	0.0243	94.6	54-137	2.56	20	L576704-18	WG594414
cis-1,3-Dichloropropene	mg/l	0.0257	0.0249	103.	63-127	3.42	20	L576704-18	WG594414
Dichlorodifluoromethane	mg/l	0.0161	0.0167	64.5	16-188	3.72	22	L576704-18	WG594414
Ethylbenzene	mg/l	0.0266	0.0261	106.	64-135	1.85	20	L576704-18	WG594414
Isopropylbenzene	mg/l	0.0278	0.0277	111.	62-134	0.170	20	L576704-18	WG594414
Methyl tert-butyl ether	mg/l	0.0254	0.0251	102.	55-136	1.23	20	L576704-18	WG594414

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Quality Assurance Report
Level II

L576141

May 29, 2012

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Methylene Chloride	mg/l	0.0219	0.0229	87.5	52-130	4.60	20	L576704-18	WG594414
n-Propylbenzene	mg/l	0.0274	0.0267	106.	62-137	2.81	20	L576704-18	WG594414
Styrene	mg/l	0.0273	0.0263	109.	58-152	3.66	20	L576704-18	WG594414
Tetrachloroethene	mg/l	0.0260	0.0262	104.	56-139	0.830	20	L576704-18	WG594414
Toluene	mg/l	0.0240	0.0238	95.8	61-126	0.850	20	L576704-18	WG594414
trans-1,2-Dichloroethene	mg/l	0.0211	0.0219	84.4	45-137	3.82	20	L576704-18	WG594414
Trichloroethene	mg/l	0.0240	0.0245	96.1	40-155	1.99	20	L576704-18	WG594414
Trichlorofluoromethane	mg/l	0.0241	0.0242	96.3	35-177	0.350	23	L576704-18	WG594414
Vinyl chloride	mg/l	0.0185	0.0197	73.9	32-159	6.59	21	L576704-18	WG594414
Xylenes, Total	mg/l	0.0788	0.0768	105.	64-133	2.59	20	L576704-18	WG594414
1,1,1-Trichloroethane	mg/l	0.0266	0.0271	105.	58-137	1.86	20	L576663-01	WG594518
1,1,2,2-Tetrachloroethane	mg/l	0.0259	0.0248	104.	64-149	4.21	20	L576663-01	WG594518
1,1,2-Trichloroethane	mg/l	0.0256	0.0242	102.	73-128	5.65	20	L576663-01	WG594518
1,1,2-Trichlorotrifluoroethane	mg/l	0.0254	0.0262	102.	36-159	2.78	21	L576663-01	WG594518
1,1-Dichloroethane	mg/l	0.0268	0.0274	107.	58-133	2.14	20	L576663-01	WG594518
1,2,3-Trichlorobenzene	mg/l	0.0235	0.0234	94.0	68-135	0.430	20	L576663-01	WG594518
1,2,4-Trichlorobenzene	mg/l	0.0243	0.0245	97.1	67-133	0.820	20	L576663-01	WG594518
1,2-Dibromoethane	mg/l	0.0267	0.0254	107.	71-129	4.97	20	L576663-01	WG594518
1,2-Dichlorobenzene	mg/l	0.0237	0.0238	94.7	75-125	0.440	20	L576663-01	WG594518
1,2-Dichloroethane	mg/l	0.0271	0.0271	108.	59-135	0.0100	20	L576663-01	WG594518
1,3-Dichlorobenzene	mg/l	0.0241	0.0234	96.4	69-131	2.88	20	L576663-01	WG594518
1,4-Dichlorobenzene	mg/l	0.0238	0.0234	95.2	70-123	1.76	20	L576663-01	WG594518
2-Butanone (MEK)	mg/l	0.127	0.120	102.	51-149	6.06	22	L576663-01	WG594518
2-Hexanone	mg/l	0.126	0.116	101.	58-148	8.56	24	L576663-01	WG594518
4-Methyl-2-pentanone (MIBK)	mg/l	0.132	0.123	105.	53-154	6.97	21	L576663-01	WG594518
Acetone	mg/l	0.0876	0.0819	70.1	34-146	6.70	22	L576663-01	WG594518
Benzene	mg/l	0.0266	0.0265	106.	51-134	0.460	20	L576663-01	WG594518
Bromochloromethane	mg/l	0.0251	0.0253	100.	67-131	0.600	20	L576663-01	WG594518
Bromodichloromethane	mg/l	0.0232	0.0230	92.8	67-132	1.12	20	L576663-01	WG594518
Bromoform	mg/l	0.0247	0.0241	98.9	59-137	2.63	20	L576663-01	WG594518
Carbon disulfide	mg/l	0.0223	0.0228	89.3	10-165	2.24	22	L576663-01	WG594518
Carbon tetrachloride	mg/l	0.0251	0.0259	100.	49-140	3.03	20	L576663-01	WG594518
Chlorobenzene	mg/l	0.0253	0.0247	101.	69-126	2.42	20	L576663-01	WG594518
Chlorodibromomethane	mg/l	0.0252	0.0242	101.	68-130	3.94	20	L576663-01	WG594518
Chloroethane	mg/l	0.0203	0.0201	81.1	32-177	0.720	21	L576663-01	WG594518
Chloroform	mg/l	0.0260	0.0266	104.	64-130	2.43	20	L576663-01	WG594518
Chloromethane	mg/l	0.0213	0.0221	85.1	27-155	3.97	20	L576663-01	WG594518
cis-1,2-Dichloroethene	mg/l	0.0261	0.0259	103.	54-137	0.860	20	L576663-01	WG594518
cis-1,3-Dichloropropene	mg/l	0.0248	0.0244	99.0	63-127	1.60	20	L576663-01	WG594518
Dichlorodifluoromethane	mg/l	0.0215	0.0228	86.2	16-188	5.45	22	L576663-01	WG594518
Ethylbenzene	mg/l	0.0247	0.0245	98.8	64-135	1.05	20	L576663-01	WG594518
Isopropylbenzene	mg/l	0.0258	0.0258	103.	62-134	0.0900	20	L576663-01	WG594518
Methyl tert-butyl ether	mg/l	0.0272	0.0273	109.	55-136	0.500	20	L576663-01	WG594518
n-Propylbenzene	mg/l	0.0249	0.0250	99.4	62-137	0.750	20	L576663-01	WG594518
Styrene	mg/l	0.0250	0.0242	100.	58-152	3.59	20	L576663-01	WG594518
Tetrachloroethene	mg/l	0.0236	0.0241	88.6	56-139	2.02	20	L576663-01	WG594518
Toluene	mg/l	0.0230	0.0226	92.0	61-126	1.92	20	L576663-01	WG594518
trans-1,2-Dichloroethene	mg/l	0.0243	0.0245	97.2	45-137	0.810	20	L576663-01	WG594518
trans-1,3-Dichloropropene	mg/l	0.0248	0.0240	99.4	59-130	3.29	20	L576663-01	WG594518
Trichloroethene	mg/l	0.0256	0.0257	87.4	40-155	0.680	20	L576663-01	WG594518
Trichlorofluoromethane	mg/l	0.0226	0.0235	90.4	35-177	3.95	23	L576663-01	WG594518
Vinyl chloride	mg/l	0.0216	0.0224	86.2	32-159	3.76	21	L576663-01	WG594518
Xylenes, Total	mg/l	0.0739	0.0729	98.5	64-133	1.32	20	L576663-01	WG594518
4-Bromofluorobenzene				105.0	82-120				WG594518
Dibromofluoromethane				113.7	82-126				WG594518
Toluene-d8				105.9	92-112				WG594518

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1,1-Dichloroethene	mg/l	0.0244	0.0238	97.5	32-152	2.27	20	L577010-03	WG594644
1,2-Dibromo-3-Chloropropane	mg/l	0.0238	0.0233	95.0	55-148	1.86	22	L577010-03	WG594644
1,2-Dichloropropane	mg/l	0.0234	0.0230	93.7	68-126	1.71	20	L577010-03	WG594644
Bromomethane	mg/l	0.0240	0.0239	96.1	23-177	0.580	21	L577010-03	WG594644
Methylene Chloride	mg/l	0.0224	0.0227	89.8	52-130	0.970	20	L577010-03	WG594644
4-Bromofluorobenzene				101.9	82-120				WG594644
Dibromofluoromethane				101.2	82-126				WG594644
Toluene-d8				102.2	92-112				WG594644
Antimony	mg/l	0.0592	0.0597	104.	75-125	0.841	20	L576125-08	WG593974
Arsenic	mg/l	0.0612	0.0608	106.	75-125	0.656	20	L576125-08	WG593974
Beryllium	mg/l	0.0569	0.0571	100.	75-125	0.351	20	L576125-08	WG593974
Cadmium	mg/l	0.0594	0.0597	105.	75-125	0.504	20	L576125-08	WG593974
Chromium	mg/l	0.0607	0.0609	106.	75-125	0.329	20	L576125-08	WG593974
Copper	mg/l	0.0583	0.0598	103.	75-125	2.54	20	L576125-08	WG593974
Lead	mg/l	0.0571	0.0578	101.	75-125	1.22	20	L576125-08	WG593974
Nickel	mg/l	0.0594	0.0608	105.	75-125	2.33	20	L576125-08	WG593974
Selenium	mg/l	0.0596	0.0584	104.	75-125	2.03	20	L576125-08	WG593974
Silver	mg/l	0.0576	0.0769	102.	75-125	28.7*	20	L576125-08	WG593974
Thallium	mg/l	0.0560	0.0566	98.8	75-125	1.07	20	L576125-08	WG593974
Zinc	mg/l	0.0675	0.0683	114.	75-125	1.18	20	L576125-08	WG593974

Batch number /Run number / Sample number cross reference

WG593943: R2181473: L576141-03
WG593809: R2183013: L576141-03
WG593807: R2183014: L576141-03
WG594285: R2183053: L576141-03
WG594414: R2183734: L576141-01 02
WG594518: R2184593: L576141-01 02 04
WG594644: R2185553: L576141-04
WG593974: R2186713: L576141-03

* * Calculations are performed prior to rounding of reported values.
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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.