2081884910

Saga Environmental & Engineering, Inc.

July 15, 2013

Mr. Jim Delwiche
Wisconsin Department of Natural Resources
141 NW Barstow Street, Room 180
Waukesha, Wisconsin 53188

RE: Additional Groundwater Investigation Results
Klinke Cleaners - Fox Run
Waukesha, Wisconsin

Dear Mr. Delwiche:

As discussed at our meeting in March 2013 and in the April 8, 2013 *Change Order Request – Additional Groundwater Investigation*, recent sub-slab soil vapor analytical results suggest that a groundwater plume is present beneath the former Klinke Cleaners facility at the Fox Run Shopping Center in Waukesha, WI (Figure 1) that requires characterization. Only one groundwater sample had been collected from beneath the building, from temporary monitoring well P-4, prior to June 2013. Considering the distribution and magnitude of vapor-phase tetrachloroethene (PCE) concentrations beneath the building, the historic PCE concentration detected in the groundwater sample collected from temporary monitoring well P-4, and the direction of groundwater flow, it appears likely that substantial contaminant mass remains in the saturated zone below the building. Characterization of the saturated source zone beneath the building is critical for evaluating future attenuation or the need for additional action.

Saga recommended installation of one groundwater monitoring well in the vicinity of the former drycleaning machine to evaluate the current groundwater quality in that area. In addition, Saga recommended collection of two groundwater grab samples collected between the former drycleaning facility space in the building and monitoring well MW-6, to evaluate plume concentrations in the area, and the potential cause of increasing concentrations of PCE at monitoring well MW-6. The WDNR approved the investigation approach and associated costs on April 25, 2013.

GROUNDWATER INVESTIGATION FIELD ACTIVITIES

On June 5, 2013 Saga Environmental and Engineering, Inc. (Saga) completed installation of an additional water table monitoring well beneath the Fox Run Shopping Center building, near the location of the former dry cleaning machine at the former Klinke Cleaners facility (MW-10, Figure 2). Well drilling was planned to be completed using a compact, low-clearance hollow stem auger drilling rig. However, based on the ceiling height inside the facility, a hollow-stem auger rig could not be utilized. Therefore, the monitoring well was installed by blind drilling to a depth of approximately 15 feet below ground surface (bgs) utilizing a direct-push hydraulic drill rig. A 1-inch diameter 10-foot long pre-packed well screen was installed into the borehole, and additional casing extended to just below the floor surface.

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The well was developed by purging slowly. Well construction and development forms are included in Attachment A. A groundwater sample was collected from monitoring well MW-10 and submitted to a WDNR-certified laboratory for analysis of volatile organic compounds (VOCs) by US EPA method SW846 8260. The laboratory analytical report is included in Attachment B.

In addition to the monitoring well, two groundwater grab samples were collected from soil borings advanced between the former drycleaner space and monitoring well MW-6 (SB-501 and SB-502, Figure 2), to evaluate plume characteristics in this direction and the possible source of increasing PCE concentrations at upgradient monitoring well MW-6. Soil samples were not collected from these borings as these areas were addressed by previous soil remediation activities. Soil borings were drilled to approximately 15 feet bgs to ensure adequate water was available for sample collection. One groundwater sample was collected from each boring and submitted for laboratory analysis of VOCs (Table1 and Attachment B).

Additionally, Saga collected depth to water measurements and groundwater VOC samples from shallow site monitoring wells MW-2, MW-5 and MW-6 (Table 1 and Table 2 and Attachment B).

INVESTIGATION RESULTS

Groundwater PCE concentrations detected in samples collected during the June 5, 2013 sampling event are summarized on Figure 3 and Table 1. Groundwater concentrations of PCE continue to be highest in the samples collected from monitoring well MW-5, behind the former drycleaner facility. The groundwater concentration of PCE in the sample collected from monitoring well MW-10 (1,550 µg/L) was an order of magnitude lower than the PCE concentration in the groundwater sample collected from monitoring well MW-5 (16,500 µg/L) during the June 5, 2013 sampling event. This contaminant distribution pattern is similar to historic soil sampling results, where the highest soil concentrations were identified near the back door of the former drycleaning facility, with slightly lower concentrations underneath the facility, and concentrations also decreasing to the north, east and west.

2005 groundwater data indicated that at that time, groundwater concentrations of PCE were similar within the former drycleaner space (8,860 mg/L at temporary well P-4) and behind the building (5,640 mg/L at temporary well P-2 in the vicinity of the former location of monitoring well MW-3; Attachment C). However, since that time, four rounds of chemical oxidant injection have been completed into the soil beneath the former drycleaner space and adjacent to the back door of the former facility. These injections may have had some effect on groundwater contaminant concentrations within the treatment areas, as the chemical reagent percolated through the target unsaturated silty shallow soils to the water table.

Decreased groundwater PCE concentrations have been observed at monitoring well MW-5 since injections began in 2009. However, significant soil source removal has also occurred adjacent to monitoring well MW-5, and unsaturated contaminant mass available to leach into groundwater upgradient of monitoring well MW-5 has been correspondingly reduced. It is unclear whether decreasing groundwater PCE concentrations at monitoring well MW-5 are attributable to source excavation, chemical oxidant injection, or a combination of the two.

Source removal has not been completed beneath the building in the vicinity of monitoring well MW-10. Based on current groundwater PCE concentrations in that area, it appears the chemical oxidant injection has had a beneficial impact on groundwater quality, reducing concentrations approximately an order of magnitude since 2005.

Groundwater and soil vapor sample locations have generally not been co-located at the former drycleaning facility, as groundwater monitoring wells are located outside of the building due to access

considerations, and vapor probes have been installed within the building to appropriately evaluate the vapor intrusion pathway. However, both soil vapor and groundwater data are available from the area of the location of the former drycleaning machine (VP-3 and MW-10, respectively). Based on the similar PCE vapor concentration data at vapor probes VP-3 and VP-5 (Figure 4), it is expected that the groundwater concentration of PCE is similar at the location of VP-5 to that detected at monitoring well MW-10, near VP-3. In addition, lower groundwater concentrations are expected at the location of vapor probes VP-6 and VP-2, as the vapor-phase PCE concentrations at those locations were an order of magnitude lower than vapor-phase PCE concentrations at the locations of VP-3 or VP-5.

As discussed above, groundwater grab samples were also collected from soil borings SB-501 and SB-502, advanced behind the building, between the former drycleaner facility and the location of monitoring well MW-6, to evaluate current groundwater quality in this area. The groundwater concentrations of PCE detected in the samples collected from both locations were near the Wisconsin Administrative Code Ch. NR 140 Enforcement Standard (ES) (Table 1). Soil boring SB-501 was completed closer to monitoring well MW-6 (Figure 3), and the groundwater concentration of PCE detected at this location was slightly higher than the concentration detected at soil boring SB-502, completed closer to the former drycleaner facility. However, both concentrations detected were within the same order of magnitude, and not considered statistically different.

CONCLUSION

Based on the results of the recent groundwater and soil vapor investigations, the extent and magnitude of groundwater contamination at the former drycleaner facility has been adequately defined. In addition, sufficient plume characterization has been completed to inform future decisions regarding remedial actions, should property use change in the future.

Sincerely,

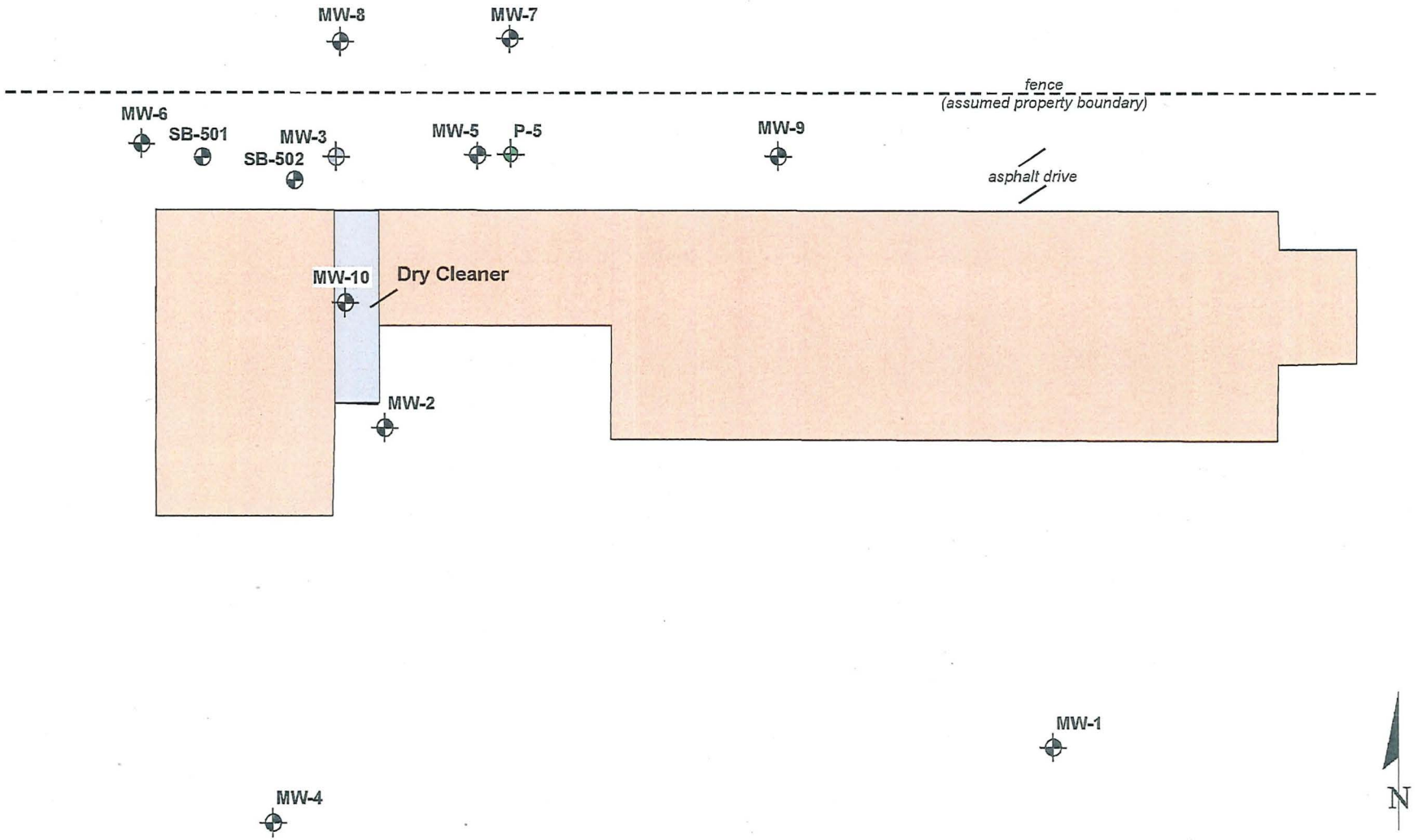
Saga Environmental & Engineering, Inc.

Paula A. Richardson, P.G.
Vice President/ Senior Hydrogeologist

Attachments:

Table 1 – Groundwater Analytical Summary
Table 2 – Groundwater Elevations
Figure 1 – Site Location
Figure 2 – Monitoring Well Locations
Figure 3 – Approximate Extent of Groundwater Impacts – June 2013
Figure 4 – Soil Gas Locations and Results – November 2012
Attachment A – Monitoring Well Construction and Development Forms
Attachment B – Laboratory Analytical Report
Attachment C – 2005 Drake Environmental Groundwater Contamination Concentrations Map

cc: Richard Klinke



LEGEND

- Structure
- Monitoring well
- New Monitoring Well
- Monitoring well (abandoned)

0 30 60 120

Approximate Scale (feet)

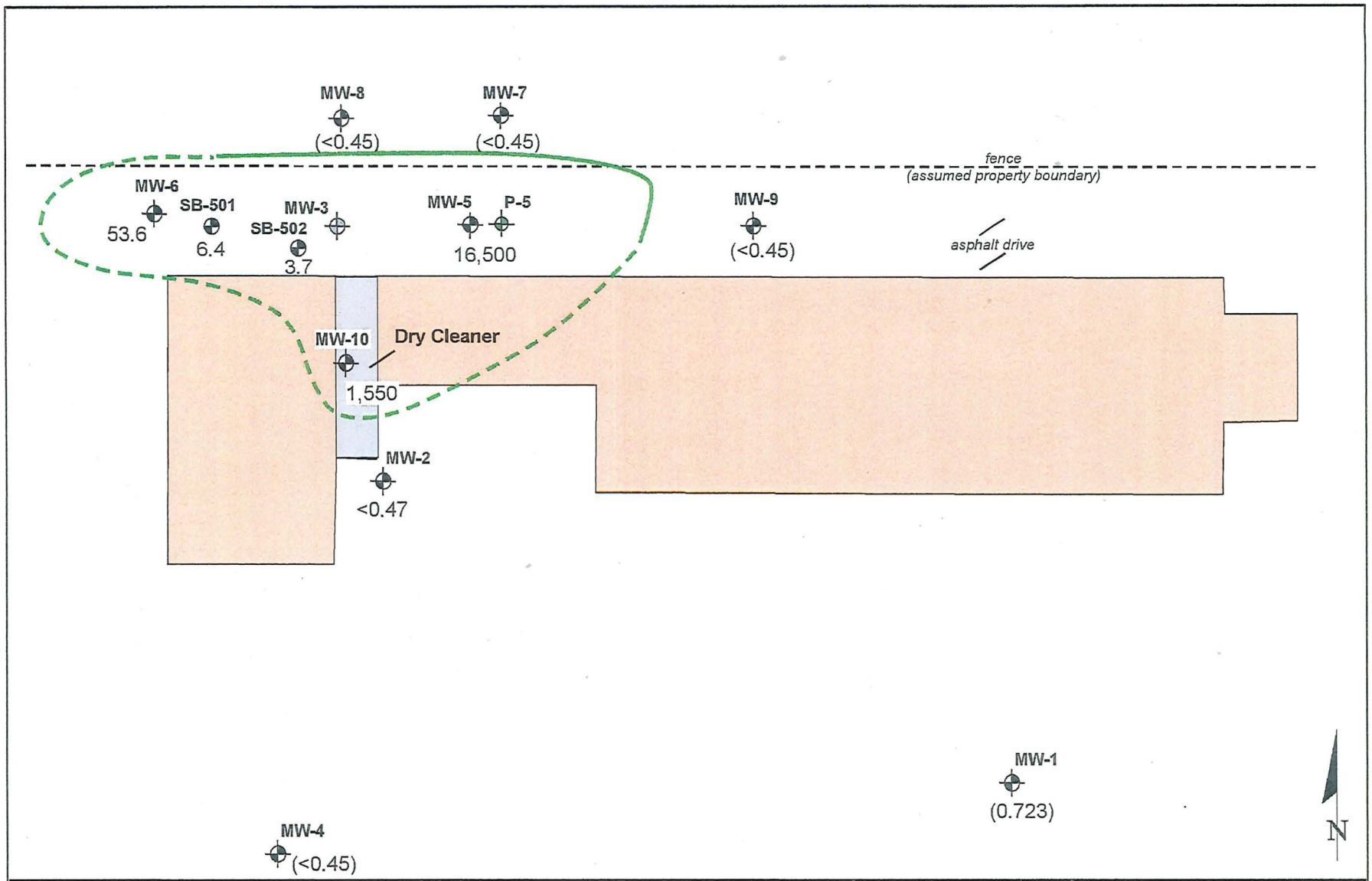
Saga Environmental & Engineering, Inc.

Project No: 05-529
Date: June 2013
Adapted By: GHT

FIGURE 2

Monitoring Well and Groundwater Sample Locations

Klinke Cleaners - Fox Run
2346 W. St. Paul Ave.
Waukesha, Wisconsin



LEGEND

- Structure
- Monitoring well
- New Monitoring Well
- Monitoring well (abandoned)

1,550	PCE Concentration in ug/L
<0.47	PCE Not detected above limit of detection shown
(0.723)	Not sampled June 2013 - most recent results shown

0 30 60 120
Approximate Scale (feet)

Sage Environmental & Engineering, Inc.

Project No: 05-529
Date: June 2013
Adapted By: GHT

FIGURE 3
Approximate Extent of Groundwater Impacts - June 2013

Klinke Cleaners - Fox Run
2346 W. St. Paul Ave.
Waukesha, Wisconsin

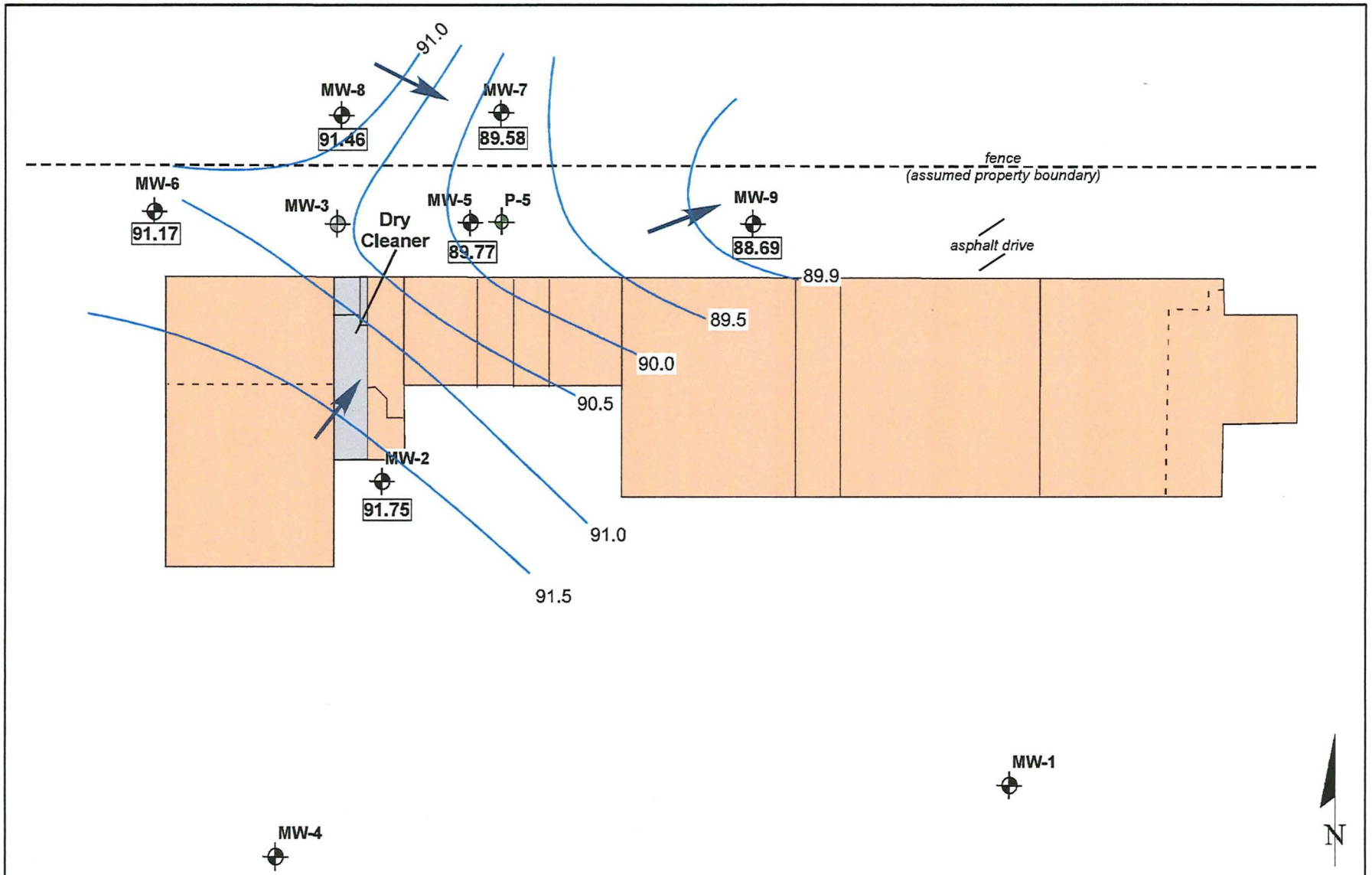

91.0
MW-8
91.46
MW-7
89.58
fence
(assumed property boundary)
MW-6
91.17
MW-3
Dry
Cleaner
MW-5
P-5
89.77
MW-9
88.69
asphalt drive
89.9
89.5
90.0
90.5
MW-2
91.75
91.0
91.5
MW-1
MW-4
N
LEGEND
Structure
Monitoring well
New Monitoring Well
Monitoring well (abandoned)
278.26
Groundwater Elevation (msl)
280.00
Approximate Groundwater Elevation Contour
Approximate Groundwater Flow Direction
0
30
60
120
Approximate Scale (feet)
Saga Environmental & Engineering, Inc.
Project No: 05-529
Date: February 2013
Adapted By: GHT
FIGURE 7
Water Table Elevation
Contours - June 2012
Klinke Cleaners - Fox Run
2346 W. St. Paul Ave.
Waukesha, Wisconsin

TABLE 1
GROUNDWATER ANALYTICAL SUMMARY
KLINKE CLEANERS - FOX RUN
WAUKESHA, WI
Concentrations in µg/L

Sample ID	Date	Volatile Organic Compounds (VOCs)					
		Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene
Wisconsin Administrative Code NR 140 Groundwater Standards							
NR 140 PAL		*0.6*	*7*	*0.5*	*160*	*40*	*0.5*
NR 140 ES		**6**	**70**	**5**	**800**	**200**	**5**
NR 141 Monitoring Wells							
MW-1	3/2/2005	<0.37	<0.83	*1.8*	0.78	<0.90	<0.48
	1/12/2006	<0.23	<0.18	*1.9*	0.23 J	0.26 J	<0.19
	11/3/2008	<1.3	<0.83	*0.94 J*	<0.67	<0.90	<0.48
	11/10/2010	<1.3	<0.83	*0.98 J*	<0.67	<0.90	<0.48
	3/31/2011	<1.3	<0.83	*1.2*	<0.67	<0.90	<0.48
	6/28/2011	<1.3	<0.83	*0.89 J*	<0.67	<0.90	<0.48
	3/7/2012	<1.3	<0.83	*1.1*	<0.67	<0.90	<0.48
	6/12/2012	<1.3	<0.83	*0.72 J*	<0.67	<0.90	<0.48
MW-2	3/2/2005	<0.37	2.8	*0.99*	<0.67	<0.90	<0.48
	1/12/2006	<0.23	<0.18	*0.70*	0.43 J	<0.21	<0.19
	11/3/2008	<1.3	<0.83	*0.51 J*	<0.67	<0.90	<0.48
	9/2/2009	<1.3	<0.83	*0.98 J*	<0.67	<0.90	<0.48
	11/10/2010	<1.3	<0.83	*0.70 J*	<0.67	<0.90	<0.48
	3/31/2011	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	6/28/2011	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	3/7/2012	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	6/12/2012	<1.3	<0.83	0.47 J	<0.67	<0.90	<0.48
	6/5/2013	<0.69	<0.42	<0.47	<0.44	<0.44	<0.43
MW-3	3/2/2005	<180*	<420*	**64,000***	<340*	<450*	<480*
	1/12/2006	<2.3	2.2 J	**130.0**	<2.1	<2.1	<1.9
	11/3/2008	<1.3	12.7	**81.4**	<0.67	<0.90	*1.2*
				Well Abandoned			
MW-3P	1/12/2006	<0.23	<0.18	*3.7*	<0.21	<0.21	<0.19
	11/3/2008	<1.3	<0.83	*4.8*	<0.67	<0.90	<0.48
				Well Abandoned			
MW-4	3/2/2005	<0.37	<0.83	*1.3*	<0.67	<0.90	<0.48
	1/12/2006	<0.23	<0.18	*1.4*	0.25 J	<0.21	<0.19
	11/3/2008	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	11/10/2010	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	3/31/2011	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	6/28/2011	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	3/7/2012	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	6/12/2012	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48

TABLE 1
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WAUKESHA, WI
Concentrations in µg/L

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		Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene
Wisconsin Administrative Code NR 140 Groundwater Standards							
NR 140 PAL		*0.6*	*7*	*0.5*	*160*	*40*	*0.5*
NR 140 ES		**6**	**70**	**5**	**800**	**200**	**5**
NR 141 Monitoring Wells							
MW-5	3/2/2005	<0.37*	<0.83*	**28***	<0.67*	<0.90*	*0.69**
	1/12/2006	<1,200	<900	**57,000**	<1,000	<1,000	<930
	11/3/2008	<260	<166	**55,600**	<134	<180	<96.0
	9/2/2009	<325	<208	**24,100**	<168	<225	<120
	11/10/2010	<325	<208	**18,500**	<168	<225	<120
	3/31/2011	<130	<83.0	**11,100**	<67.0	<90.0	<48.0
	6/28/2011	<162	<104	**12,500**	<83.8	<112	<60.0
	3/7/2012	<162	<104	**13,200**	<83.8	<112	<60.0
	6/12/2012	<162	<104	**19,100**	<83.8	<112	<60.0
	6/5/2013	<86.1	<52.4	**16,500**	<54.8	<55.4	<53.6
P-5	3/31/2011	<1.3	<0.83	*0.56 J*	<0.67	<0.90	<0.48
	6/28/2011	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	3/7/2012	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	6/12/2012	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
MW-6	3/2/2005	0.49	<0.83	*4.7*	<0.67	<0.90	<0.48
	1/12/2006	*1.5*	<0.18	**18**	0.22 J	<0.21	*0.55 J*
	11/3/2008	<1.3	<0.83	**18.8**	<0.67	<0.90	<0.48
	9/2/2009	<1.3	<0.83	**19.1**	<0.67	<0.90	<0.48
	11/10/2010	<1.3	<0.83	**26.9**	<0.67	<0.90	*0.55 J*
	3/31/2011	<1.3	<0.83	**28.2**	<0.67	<0.90	<0.48
	6/28/2011	<1.3	<0.83	**24.0**	<0.67	<0.90	<0.48
	3/7/2012	<1.3	<0.83	**27.6**	<0.67	<0.90	<0.48
	6/12/2012	<1.3	<0.83	**46.2**	<0.67	<0.90	*0.57 J*
	6/5/2013	<0.69	<0.42	**53.6**	<0.44	<0.44	*0.77 J*
MW-7	11/3/2008	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	9/2/2009	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	11/10/2010	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	3/31/2011	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	6/28/2011	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	3/7/2012	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	6/12/2012	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
MW-8	11/3/2008	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	9/2/2009	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	11/10/2010	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	3/31/2011	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	6/28/2011	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	3/7/2012	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	6/12/2012	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48

TABLE 1
GROUNDWATER ANALYTICAL SUMMARY
KLINKE CLEANERS - FOX RUN
WAUKESHA, WI
Concentrations in µg/L

Sample ID	Date	Volatile Organic Compounds (VOCs)					
		Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene
Wisconsin Administrative Code NR 140 Groundwater Standards							
NR 140 PAL		*0.6*	*7*	*0.5*	*160*	*40*	*0.5*
NR 140 ES		**6**	**70**	**5**	**800**	**200**	**5**
NR 141 Monitoring Wells							
MW-9	9/2/2009	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	11/10/2010	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	3/31/2011	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	6/28/2011	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	3/7/2012	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
	6/12/2012	<1.3	<0.83	<0.45	<0.67	<0.90	<0.48
Direct-Push Monitoring Wells							
MW-10	6/5/2013	<27.5	<16.8	**1,550**	<17.5	<17.7	<17.2
Groundwater Grab Samples							
SB-501	6/5/2013	<0.69	0.76 J	*6.4*	<0.44	<0.44	*0.54 J*
SB-502	6/5/2013	<0.69	1.8	*3.7*	<0.44	<0.44	*2.0*

Notes:

28 : Concentration exceeds NR 140 ES.
4.7 : Concentration exceeds NR 140 PAL.
µg/L : Micrograms per liter.
PAL : Preventive Action Limit.
ES : Enforcement Standard.
<0.20 : Analyte not detected above limit of detection shown.
J : Laboratory flag - Analyte detected between limit of detection and limit of quantitation. Results qualified due to lack of certainty of results within this range.
* : It appears likely that samples for MW-3 and MW-5 were mislabled during the March 2, 2005 sampling event.

TABLE 2
KLINKE CLEANERS
FOX RUN SHOPPING CENTER
WAUKESHA, WISCONSIN
GROUNDWATER ELEVATIONS

Well Location	Date	Top of Casing Elevation (feet)	Depth to Water from TOC (feet)	Water Table Elevation (feet)
MW-1	1/12/2006	101.39	24.60	76.79
	11/3/2008		24.48	76.91
	2/25/2009		23.89	77.50
	4/28/2009		22.05	79.34
	11/10/2010		24.43	76.96
	3/31/2011		22.50	78.89
	6/28/2011		22.5	78.89
	3/7/2012		24.01	77.38
	6/12/2012		23.4	77.99
MW-2	1/12/2006	100.21	8.68	91.53
	11/3/2008		8.84	91.37
	2/25/2009		8.40	91.81
	4/28/2009		7.57	92.64
	9/2/2009		8.58	91.63
	11/10/2010		9.00	91.21
	3/31/2011		7.70	92.51
	6/28/2011		8.02	92.19
	3/7/2012		8.36	91.85
	6/12/2012		8.46	91.75
	6/5/2013		7.57	92.64
MW-3	1/12/2006	99.66	8.16	91.50
	11/3/2008		8.50	91.16
	2/25/2009		8.38	91.28
	4/28/2009		6.98	92.68
			Abandoned	
P-3	1/12/2006	100.44	32.03	68.41
	11/3/2008		20.89	79.55
	2/25/2009		20.44	80.00
	4/28/2009		19.22	81.22
			Abandoned	
MW-4	1/12/2006	100.41	23.48	76.93
	11/3/2008		23.43	76.98
	2/25/2009		22.85	77.56
	4/28/2009		21.11	79.3
	11/10/2010		23.34	77.07
	3/31/2011		21.35	79.06
	6/28/2011		22.40	78.01
	3/7/2012		22.95	77.46
	6/12/2012		22.39	78.02

TABLE 2
KLINKE CLEANERS
FOX RUN SHOPPING CENTER
WAUKESHA, WISCONSIN
GROUNDWATER ELEVATIONS

Well Location	Date	Top of Casing Elevation (feet)	Depth to Water from TOC (feet)	Water Table Elevation (feet)
MW-5	1/12/2006	99.78	9.20	90.58
	11/3/2008		9.48	90.30
	2/25/2009		9.63	90.15
	4/28/2009		8.24	91.54
	9/2/2009		8.93	90.85
	11/10/2010		9.48	90.30
	3/31/2011		9.39	90.39
	6/28/2011		9.16	90.62
	3/7/2012		10.7	89.08
	6/12/2012		10.01	89.77
	6/5/2013		9.35	90.43
P-5	3/31/2011	99.62	20.79	78.83
	6/28/2011		20.83	78.79
	3/7/2012		22.23	77.39
	6/12/2012		21.70	77.92
MW-6	1/12/2006	100.00	8.64	91.36
	11/3/2008		8.80	91.20
	2/25/2009		8.79	91.21
	4/28/2009		8.17	91.83
	9/2/2009		8.80	91.20
	11/10/2010		8.90	91.10
	3/31/2011		8.55	91.45
	6/28/2011		8.62	91.38
	3/7/2012		8.59	91.41
	6/12/2012		8.83	91.17
	6/5/2013		8.48	91.52
MW-7	11/3/2008	99.04	8.32	90.72
	2/25/2009		8.47	90.57
	4/28/2009		7.15	91.89
	9/2/2009		8.09	90.95
	11/10/2010		8.44	90.6
	3/31/2011		8.32	90.72
	6/28/2011		8.16	90.88
	3/7/2012		8.12	90.92
	6/12/2012		9.46	89.58
MW-8	11/3/2008	99.83	8.05	91.78
	2/25/2009		8.00	91.83
	4/28/2009		6.61	93.22
	9/2/2009		8.08	91.75
	11/10/2010		8.16	91.67
	3/31/2011		7.67	92.16
	6/28/2011		7.82	92.01
	3/7/2012		7.84	91.99
	6/12/2012		8.37	91.46

TABLE 2
KLINKE CLEANERS
FOX RUN SHOPPING CENTER
WAUKESHA, WISCONSIN
GROUNDWATER ELEVATIONS

Well Location	Date	Top of Casing Elevation (feet)	Depth to Water from TOC (feet)	Water Table Elevation (feet)
MW-9	9/2/2009	99.51	10.00	89.51
	11/10/2010		11.13	88.38
	3/31/2011		10.69	88.82
	6/28/2011		10.48	89.03
	3/7/2012		10.96	88.55
	6/12/2012		10.82	88.69

TOC : Top of casing.
bgs: Below ground surface.
[1] Elevations in feet, referenced to a local datum (top of MW-6 PVC casing).

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 19, 2013

Paula Richardson
Saga Environmental and Engineering, Inc.
110 E. Lake Street
Lake Mills, WI 53551

RE: Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Dear Paula Richardson:
Enclosed are the analytical results for sample(s) received by the laboratory on June 08, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

The data for MW-10 has been revised. The original data was reported from an analysis which occured beyond the required twelve hour instrument tune.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky

dan.milewsky@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4079312001	MW-2	Water	06/05/13 13:00	06/08/13 09:10
4079312002	MW-5	Water	06/05/13 15:00	06/08/13 09:10
4079312003	MW-6	Water	06/05/13 14:00	06/08/13 09:10
4079312004	MW-10	Water	06/05/13 12:00	06/08/13 09:10
4079312005	SB-501	Water	06/05/13 10:00	06/08/13 09:10
4079312006	SB-502	Water	06/05/13 10:45	06/08/13 09:10
4079312007	QC-1	Water	06/05/13 11:00	06/08/13 09:10
4079312008	TRIP BLANK	Water	06/05/13 00:00	06/08/13 09:10

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4079312001	MW-2	EPA 8260	HNW	64	PASI-G
4079312002	MW-5	EPA 8260	HNW	64	PASI-G
4079312003	MW-6	EPA 8260	HNW	64	PASI-G
4079312004	MW-10	EPA 8260	HNW	64	PASI-G
4079312005	SB-501	EPA 8260	HNW	64	PASI-G
4079312006	SB-502	EPA 8260	HNW	64	PASI-G
4079312007	QC-1	EPA 8260	HNW	64	PASI-G
4079312008	TRIP BLANK	EPA 8260	LAP	64	PASI-G

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap#
Waukesha		boring SB-501

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

¼ ¼ or Gov't Lot #	Section	Township	Range
SE ~~SE~~ ¼ SE	8	6 N	19 ☒ E ☐ W

Well Street Address: 2346 W. St. Paul Ave
Well City, Village or Town: Waukesha — Well ZIP Code: 53188
Subdivision Name: — — Lot #:

Reason For Removal From Service: investigation complete
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Former Klinke Cleaners - Fox Run
Facility ID (FID or PWS): 268188910
License/Permit/Monitoring #:
Original Well Owner: Klinke Cleaners
Present Well Owner: Klinke Cleaners
Mailing Address of Present Owner: 4518 Monona Dr.
City of Present Owner: Madison — State: WI — ZIP Code: 53716

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/5/13
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15	n/a
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	n/a

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	10

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15		

bentonite chips (3/8")

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: On-Site Environmental — License #: — Date of Filling & Sealing (mm/dd/yyyy): 6/5/13
Street or Route: 3210 Edmonton Dr. — Telephone Number: (608) 837-8992
City: Sun Prairie — State: WI — ZIP Code: 53590
Signature of Person Doing Work: — Date Signed: 7/15/13

DNR Use Only
Date Received: — Noted By: — Comments:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Klinke Cleaners Fox Run		SB-S02

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Dusty Last Name: Harvey Firm: On-Site Environmental	06/05/2013 (m m d d y y y y)	06/05/2013 (m m d d y y y y)	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			____ Feet MSL	____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
SE 1/4 of SE 1/4 of Section 8, T 6 N, R 19

Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "

Local Grid Location
☐ N ☐ E
____ Feet ☐ S ____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268188910	Waukesha	68	City of Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Drill w/out Sampling to 15' Collect groundwater grab sample @ 15' Abandon w/ bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Dan T. Firm: Saga Environmental + Engr, Inc

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	~~Hicap #~~ Boring
Waukesha		SB-502

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

¼ ¼ SE ~~SE~~ ¼ SE or Gov't Lot #	Section	Township	Range
	8	6 N	19 ☒ E ☐ W

Well Street Address: 2346 W. St. Paul Ave

Well City, Village or Town	Well ZIP Code
Waukesha	53188

Subdivision Name	Lot #
—	

Reason For Removal From Service: Investigation complete
WI Unique Well # of Replacement Well: __ __ __ __ __

2. Facility / Owner Information

Facility Name: Former Klink Cleaners - Fox Run
Facility ID (FID or PWS): 268188910
License/Permit/Monitoring #:
Original Well Owner: Klinke Cleaners
Present Well Owner: Klinke Cleaners
Mailing Address of Present Owner: 4518 Monona Dr.

City of Present Owner	State	ZIP Code
Madison	WI	53716

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/5/13
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15	n/a
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	n/a

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	10

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
bentonite chips (3/8")	Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
On-Site Environmental		6/5/13

Street or Route	Telephone Number
3210 Edmonton Dr.	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590		7/15/13

DNR Use Only

Date Received	Noted By

Comments:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: Klinke Cleaners Fox Run	License/Permit/Monitoring Number:	Boring Number: MW-10
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Dusty Last Name: Harvey — Firm: On-Site Environmental	Date Drilling Started: 06/05/2013 (m m d d y y y y)	Date Drilling Completed: 06/05/2013 (m m d d y y y y) — Drilling Method: Geoprobe
WI Unique Well No.: _____	DNR Well ID No.: _____	Well Name: _____
Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — SE 1/4 of SE 1/4 of Section 8, T 6 N, R 19	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
Facility ID: 268188910	County: Waukesha	County Code: 68 — Civil Town/City/ or Village: City of Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Drill w/out sampling to 15', set prepacked well Screen 15'-5' bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: Saga Environmental + Engr, Inc

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Klinke - Fox Run	Local Grid Location of Well: ☐ ft. ☐ N. ☐ S. ☐ ft. ☐ E. ☐ W.	Well Name: MW-10
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 268188910	St. Plane ft. N, ft. E. S/C/N	Date Well Installed: 06/05/2013 (m m d d y y y y)
Type of Well: Well Code MW	Section Location of Waste/Source: SE 1/4 of SE 1/4 of Sec. 8 T. 6 N, R. 19 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: Dusty Harvey, Onsite Environmental
Distance from Waste/Source: 0 ft. / Enf. Stds. Apply ☒	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom 4 ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☐ 41
Geoprobe Other ☒

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or 4 ft.

G. Filter pack, top _____ ft. MSL or 5 ft.

H. Screen joint, top _____ ft. MSL or 5 ft.

I. Well bottom _____ ft. MSL or 15 ft.

J. Filter pack, bottom _____ ft. MSL or 15 ft.

K. Borehole, bottom _____ ft. MSL or 15 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 1.33 in.

N. I.D. well casing 1.07 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: PVC Slip Cap Steel ☐ 04 Other ☒
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☒ 30 Concrete ☐ 01 Other ☐
_____

4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐
_____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 32
c. _____ Other ☐

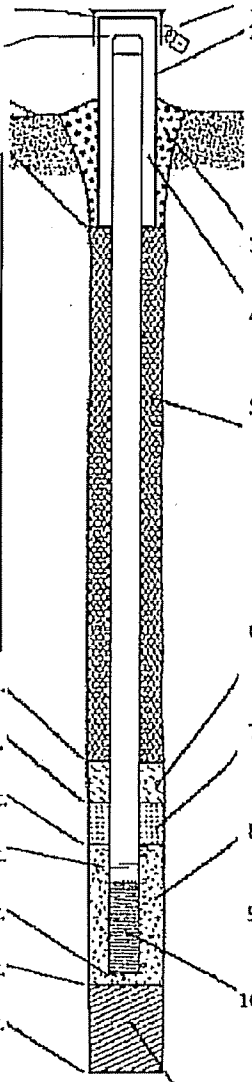
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. pw-pack Monoflex
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☐ 24
pwpack 1" Other ☒

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐
_____
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14 Other ☐
_____



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Pam T.	Saga Environmental + Engr. Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Klinke Cleaners Fox Run	Waukesha	MW-10
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	68	------	----

1. Can this well be purged dry? ☐ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☒ 50
Other _____	☐

3. Time spent developing well 35 min.

4. Depth of well (from top of well casisng) 14.9 ft.

5. Inside diameter of well 1.07 in.

6. Volume of water in filter pack and well casing 3.0 gal.

7. Volume of water removed from well 3.0 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added n/a

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 8.77 ft.	13.85 ft.
Date	b. 06/05/2013 (m m d d y y y y)	06/05/2013 (m m d d y y y y)
Time	c. 11:30 ☒ a.m. ☐ p.m.	12:05 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	___.__ inches	___.__ inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☐ 20 Turbid ☒ 25
(Describe)	thick brown	much lighter almost clear
14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Paula Last Name: Richardson
Firm: Saga Environmental + Engr. Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Richard Last Name: Klinke
Facility/Firm: Klinke Cleaners
Street: 4518 Monona Dr.
City/State/Zip: Madison, WI 53716

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Paula Richardson
Firm: Saga Env. + Engr. Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: MW-2 **Lab ID: 4079312001** Collected: 06/05/13 13:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:30	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:30	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		06/14/13 10:30	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		06/14/13 10:30	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		06/14/13 10:30	75-25-2	
Bromomethane	**0.46J**	ug/L	5.0	0.43	1		06/14/13 10:30	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		06/14/13 10:30	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		06/14/13 10:30	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/13 10:30	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		06/14/13 10:30	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		06/14/13 10:30	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		06/14/13 10:30	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		06/14/13 10:30	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		06/14/13 10:30	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:30	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:30	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		06/14/13 10:30	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		06/14/13 10:30	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		06/14/13 10:30	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:30	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		06/14/13 10:30	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		06/14/13 10:30	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		06/14/13 10:30	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		06/14/13 10:30	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		06/14/13 10:30	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:30	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/14/13 10:30	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		06/14/13 10:30	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		06/14/13 10:30	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:30	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		06/14/13 10:30	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		06/14/13 10:30	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		06/14/13 10:30	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		06/14/13 10:30	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		06/14/13 10:30	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:30	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:30	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		06/14/13 10:30	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		06/14/13 10:30	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		06/14/13 10:30	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		06/14/13 10:30	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		06/14/13 10:30	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 10:30	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:30	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		06/14/13 10:30	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		06/14/13 10:30	630-20-6	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: MW-2 **Lab ID: 4079312001** Collected: 06/05/13 13:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		06/14/13 10:30	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		06/14/13 10:30	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		06/14/13 10:30	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		06/14/13 10:30	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 10:30	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		06/14/13 10:30	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		06/14/13 10:30	79-00-5	
Trichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/14/13 10:30	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:30	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		06/14/13 10:30	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		06/14/13 10:30	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 10:30	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/14/13 10:30	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		06/14/13 10:30	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	43-137		1		06/14/13 10:30	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/14/13 10:30	1868-53-7	
Toluene-d8 (S)	98	%	55-137		1		06/14/13 10:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: MW-5 **Lab ID: 4079312002** Collected: 06/05/13 15:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<62.5**	ug/L	125	62.5	125		06/14/13 16:17	71-43-2	
Bromobenzene	**<60.5**	ug/L	125	60.5	125		06/14/13 16:17	108-86-1	
Bromochloromethane	**<61.5**	ug/L	125	61.5	125		06/14/13 16:17	74-97-5	
Bromodichloromethane	**<56.6**	ug/L	125	56.6	125		06/14/13 16:17	75-27-4	
Bromoform	**<29.1**	ug/L	125	29.1	125		06/14/13 16:17	75-25-2	
Bromomethane	**<53.7**	ug/L	625	53.7	125		06/14/13 16:17	74-83-9	
n-Butylbenzene	**<50.0**	ug/L	125	50.0	125		06/14/13 16:17	104-51-8	
sec-Butylbenzene	**<75.6**	ug/L	625	75.6	125		06/14/13 16:17	135-98-8	
tert-Butylbenzene	**<53.0**	ug/L	125	53.0	125		06/14/13 16:17	98-06-6	
Carbon tetrachloride	**<45.6**	ug/L	125	45.6	125		06/14/13 16:17	56-23-5	
Chlorobenzene	**<44.8**	ug/L	125	44.8	125		06/14/13 16:17	108-90-7	
Chloroethane	**<55.5**	ug/L	125	55.5	125		06/14/13 16:17	75-00-3	
Chloroform	**<86.1**	ug/L	625	86.1	125		06/14/13 16:17	67-66-3	
Chloromethane	**<48.4**	ug/L	125	48.4	125		06/14/13 16:17	74-87-3	
2-Chlorotoluene	**<59.6**	ug/L	125	59.6	125		06/14/13 16:17	95-49-8	
4-Chlorotoluene	**<60.4**	ug/L	125	60.4	125		06/14/13 16:17	106-43-4	
1,2-Dibromo-3-chloropropane	**<187**	ug/L	625	187	125		06/14/13 16:17	96-12-8	
Dibromochloromethane	**<237**	ug/L	625	237	125		06/14/13 16:17	124-48-1	
1,2-Dibromoethane (EDB)	**<47.6**	ug/L	125	47.6	125		06/14/13 16:17	106-93-4	
Dibromomethane	**<60.1**	ug/L	125	60.1	125		06/14/13 16:17	74-95-3	
1,2-Dichlorobenzene	**<54.8**	ug/L	125	54.8	125		06/14/13 16:17	95-50-1	
1,3-Dichlorobenzene	**<56.4**	ug/L	125	56.4	125		06/14/13 16:17	541-73-1	
1,4-Dichlorobenzene	**<54.3**	ug/L	125	54.3	125		06/14/13 16:17	106-46-7	
Dichlorodifluoromethane	**<50.1**	ug/L	125	50.1	125		06/14/13 16:17	75-71-8	
1,1-Dichloroethane	**<35.6**	ug/L	125	35.6	125		06/14/13 16:17	75-34-3	
1,2-Dichloroethane	**<59.5**	ug/L	125	59.5	125		06/14/13 16:17	107-06-2	
1,1-Dichloroethene	**<53.3**	ug/L	125	53.3	125		06/14/13 16:17	75-35-4	
cis-1,2-Dichloroethene	**<52.4**	ug/L	125	52.4	125		06/14/13 16:17	156-59-2	
trans-1,2-Dichloroethene	**<46.4**	ug/L	125	46.4	125		06/14/13 16:17	156-60-5	
1,2-Dichloropropane	**<62.3**	ug/L	125	62.3	125		06/14/13 16:17	78-87-5	
1,3-Dichloropropane	**<57.9**	ug/L	125	57.9	125		06/14/13 16:17	142-28-9	
2,2-Dichloropropane	**<46.1**	ug/L	125	46.1	125		06/14/13 16:17	594-20-7	
1,1-Dichloropropene	**<63.4**	ug/L	125	63.4	125		06/14/13 16:17	563-58-6	
cis-1,3-Dichloropropene	**<36.3**	ug/L	125	36.3	125		06/14/13 16:17	10061-01-5	
trans-1,3-Dichloropropene	**<32.8**	ug/L	125	32.8	125		06/14/13 16:17	10061-02-6	
Diisopropyl ether	**<62.5**	ug/L	125	62.5	125		06/14/13 16:17	108-20-3	
Ethylbenzene	**<62.5**	ug/L	125	62.5	125		06/14/13 16:17	100-41-4	
Hexachloro-1,3-butadiene	**<157**	ug/L	625	157	125		06/14/13 16:17	87-68-3	
Isopropylbenzene (Cumene)	**<42.6**	ug/L	125	42.6	125		06/14/13 16:17	98-82-8	
p-Isopropyltoluene	**<49.6**	ug/L	125	49.6	125		06/14/13 16:17	99-87-6	
Methylene Chloride	**<44.8**	ug/L	125	44.8	125		06/14/13 16:17	75-09-2	
Methyl-tert-butyl ether	**<61.7**	ug/L	125	61.7	125		06/14/13 16:17	1634-04-4	
Naphthalene	**<312**	ug/L	625	312	125		06/14/13 16:17	91-20-3	
n-Propylbenzene	**<62.5**	ug/L	125	62.5	125		06/14/13 16:17	103-65-1	
Styrene	**<43.7**	ug/L	125	43.7	125		06/14/13 16:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<56.3**	ug/L	125	56.3	125		06/14/13 16:17	630-20-6	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: MW-5 **Lab ID: 4079312002** Collected: 06/05/13 15:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<48.0**	ug/L	125	48.0	125		06/14/13 16:17	79-34-5	
Tetrachloroethene	**16500**	ug/L	125	59.0	125		06/14/13 16:17	127-18-4	
Toluene	**<54.8**	ug/L	125	54.8	125		06/14/13 16:17	108-88-3	
1,2,3-Trichlorobenzene	**<96.0**	ug/L	625	96.0	125		06/14/13 16:17	87-61-6	
1,2,4-Trichlorobenzene	**<312**	ug/L	625	312	125		06/14/13 16:17	120-82-1	
1,1,1-Trichloroethane	**<55.4**	ug/L	125	55.4	125		06/14/13 16:17	71-55-6	
1,1,2-Trichloroethane	**<48.7**	ug/L	125	48.7	125		06/14/13 16:17	79-00-5	
Trichloroethene	**<53.6**	ug/L	125	53.6	125		06/14/13 16:17	79-01-6	
Trichlorofluoromethane	**<59.6**	ug/L	125	59.6	125		06/14/13 16:17	75-69-4	
1,2,3-Trichloropropane	**<58.5**	ug/L	125	58.5	125		06/14/13 16:17	96-18-4	
1,2,4-Trimethylbenzene	**<71.5**	ug/L	625	71.5	125		06/14/13 16:17	95-63-6	
1,3,5-Trimethylbenzene	**<312**	ug/L	625	312	125		06/14/13 16:17	108-67-8	
Vinyl chloride	**<23.1**	ug/L	125	23.1	125		06/14/13 16:17	75-01-4	
m&p-Xylene	**<102**	ug/L	250	102	125		06/14/13 16:17	179601-23-1	
o-Xylene	**<62.5**	ug/L	125	62.5	125		06/14/13 16:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	43-137		125		06/14/13 16:17	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		125		06/14/13 16:17	1868-53-7	
Toluene-d8 (S)	98	%	55-137		125		06/14/13 16:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: MW-6 **Lab ID: 4079312003** Collected: 06/05/13 14:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:25	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:25	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		06/14/13 14:25	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		06/14/13 14:25	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		06/14/13 14:25	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		06/14/13 14:25	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		06/14/13 14:25	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		06/14/13 14:25	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/13 14:25	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		06/14/13 14:25	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		06/14/13 14:25	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		06/14/13 14:25	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		06/14/13 14:25	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		06/14/13 14:25	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:25	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:25	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		06/14/13 14:25	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		06/14/13 14:25	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		06/14/13 14:25	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:25	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		06/14/13 14:25	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		06/14/13 14:25	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		06/14/13 14:25	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		06/14/13 14:25	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		06/14/13 14:25	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:25	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/14/13 14:25	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		06/14/13 14:25	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		06/14/13 14:25	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:25	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		06/14/13 14:25	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		06/14/13 14:25	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		06/14/13 14:25	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		06/14/13 14:25	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		06/14/13 14:25	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:25	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:25	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		06/14/13 14:25	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		06/14/13 14:25	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		06/14/13 14:25	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		06/14/13 14:25	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		06/14/13 14:25	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 14:25	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:25	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		06/14/13 14:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		06/14/13 14:25	630-20-6	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: MW-6 **Lab ID: 4079312003** Collected: 06/05/13 14:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		06/14/13 14:25	79-34-5	
Tetrachloroethene	**53.6**	ug/L	1.0	0.47	1		06/14/13 14:25	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		06/14/13 14:25	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		06/14/13 14:25	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 14:25	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		06/14/13 14:25	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		06/14/13 14:25	79-00-5	
Trichloroethene	**0.77J**	ug/L	1.0	0.43	1		06/14/13 14:25	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:25	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		06/14/13 14:25	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		06/14/13 14:25	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 14:25	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/14/13 14:25	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		06/14/13 14:25	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	43-137		1		06/14/13 14:25	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/14/13 14:25	1868-53-7	
Toluene-d8 (S)	100	%	55-137		1		06/14/13 14:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: MW-10 **Lab ID: 4079312004** Collected: 06/05/13 12:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<20.0**	ug/L	40.0	20.0	40		06/14/13 15:54	71-43-2	
Bromobenzene	**<19.3**	ug/L	40.0	19.3	40		06/14/13 15:54	108-86-1	
Bromochloromethane	**<19.7**	ug/L	40.0	19.7	40		06/14/13 15:54	74-97-5	
Bromodichloromethane	**<18.1**	ug/L	40.0	18.1	40		06/14/13 15:54	75-27-4	
Bromoform	**<9.3**	ug/L	40.0	9.3	40		06/14/13 15:54	75-25-2	
Bromomethane	**<17.2**	ug/L	200	17.2	40		06/14/13 15:54	74-83-9	
n-Butylbenzene	**<16.0**	ug/L	40.0	16.0	40		06/14/13 15:54	104-51-8	
sec-Butylbenzene	**<24.2**	ug/L	200	24.2	40		06/14/13 15:54	135-98-8	
tert-Butylbenzene	**<17.0**	ug/L	40.0	17.0	40		06/14/13 15:54	98-06-6	
Carbon tetrachloride	**<14.6**	ug/L	40.0	14.6	40		06/14/13 15:54	56-23-5	
Chlorobenzene	**<14.3**	ug/L	40.0	14.3	40		06/14/13 15:54	108-90-7	
Chloroethane	**<17.7**	ug/L	40.0	17.7	40		06/14/13 15:54	75-00-3	
Chloroform	**<27.5**	ug/L	200	27.5	40		06/14/13 15:54	67-66-3	
Chloromethane	**<15.5**	ug/L	40.0	15.5	40		06/14/13 15:54	74-87-3	
2-Chlorotoluene	**<19.1**	ug/L	40.0	19.1	40		06/14/13 15:54	95-49-8	
4-Chlorotoluene	**<19.3**	ug/L	40.0	19.3	40		06/14/13 15:54	106-43-4	
1,2-Dibromo-3-chloropropane	**<59.9**	ug/L	200	59.9	40		06/14/13 15:54	96-12-8	
Dibromochloromethane	**<75.8**	ug/L	200	75.8	40		06/14/13 15:54	124-48-1	
1,2-Dibromoethane (EDB)	**<15.2**	ug/L	40.0	15.2	40		06/14/13 15:54	106-93-4	
Dibromomethane	**<19.2**	ug/L	40.0	19.2	40		06/14/13 15:54	74-95-3	
1,2-Dichlorobenzene	**<17.5**	ug/L	40.0	17.5	40		06/14/13 15:54	95-50-1	
1,3-Dichlorobenzene	**<18.0**	ug/L	40.0	18.0	40		06/14/13 15:54	541-73-1	
1,4-Dichlorobenzene	**<17.4**	ug/L	40.0	17.4	40		06/14/13 15:54	106-46-7	
Dichlorodifluoromethane	**<16.0**	ug/L	40.0	16.0	40		06/14/13 15:54	75-71-8	
1,1-Dichloroethane	**<11.4**	ug/L	40.0	11.4	40		06/14/13 15:54	75-34-3	
1,2-Dichloroethane	**<19.1**	ug/L	40.0	19.1	40		06/14/13 15:54	107-06-2	
1,1-Dichloroethene	**<17.1**	ug/L	40.0	17.1	40		06/14/13 15:54	75-35-4	
cis-1,2-Dichloroethene	**<16.8**	ug/L	40.0	16.8	40		06/14/13 15:54	156-59-2	
trans-1,2-Dichloroethene	**<14.9**	ug/L	40.0	14.9	40		06/14/13 15:54	156-60-5	
1,2-Dichloropropane	**<19.9**	ug/L	40.0	19.9	40		06/14/13 15:54	78-87-5	
1,3-Dichloropropane	**<18.5**	ug/L	40.0	18.5	40		06/14/13 15:54	142-28-9	
2,2-Dichloropropane	**<14.8**	ug/L	40.0	14.8	40		06/14/13 15:54	594-20-7	
1,1-Dichloropropene	**<20.3**	ug/L	40.0	20.3	40		06/14/13 15:54	563-58-6	
cis-1,3-Dichloropropene	**<11.6**	ug/L	40.0	11.6	40		06/14/13 15:54	10061-01-5	
trans-1,3-Dichloropropene	**<10.5**	ug/L	40.0	10.5	40		06/14/13 15:54	10061-02-6	
Diisopropyl ether	**<20.0**	ug/L	40.0	20.0	40		06/14/13 15:54	108-20-3	
Ethylbenzene	**<20.0**	ug/L	40.0	20.0	40		06/14/13 15:54	100-41-4	
Hexachloro-1,3-butadiene	**<50.3**	ug/L	200	50.3	40		06/14/13 15:54	87-68-3	
Isopropylbenzene (Cumene)	**<13.6**	ug/L	40.0	13.6	40		06/14/13 15:54	98-82-8	
p-Isopropyltoluene	**<15.9**	ug/L	40.0	15.9	40		06/14/13 15:54	99-87-6	
Methylene Chloride	**<14.3**	ug/L	40.0	14.3	40		06/14/13 15:54	75-09-2	
Methyl-tert-butyl ether	**<19.7**	ug/L	40.0	19.7	40		06/14/13 15:54	1634-04-4	
Naphthalene	**<100**	ug/L	200	100	40		06/14/13 15:54	91-20-3	
n-Propylbenzene	**<20.0**	ug/L	40.0	20.0	40		06/14/13 15:54	103-65-1	
Styrene	**<14.0**	ug/L	40.0	14.0	40		06/14/13 15:54	100-42-5	
1,1,1,2-Tetrachloroethane	**<18.0**	ug/L	40.0	18.0	40		06/14/13 15:54	630-20-6	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: MW-10 **Lab ID: 4079312004** Collected: 06/05/13 12:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<15.4**	ug/L	40.0	15.4	40		06/14/13 15:54	79-34-5	
Tetrachloroethene	**1550**	ug/L	40.0	18.9	40		06/14/13 15:54	127-18-4	
Toluene	**<17.5**	ug/L	40.0	17.5	40		06/14/13 15:54	108-88-3	
1,2,3-Trichlorobenzene	**<30.7**	ug/L	200	30.7	40		06/14/13 15:54	87-61-6	
1,2,4-Trichlorobenzene	**<100**	ug/L	200	100	40		06/14/13 15:54	120-82-1	
1,1,1-Trichloroethane	**<17.7**	ug/L	40.0	17.7	40		06/14/13 15:54	71-55-6	
1,1,2-Trichloroethane	**<15.6**	ug/L	40.0	15.6	40		06/14/13 15:54	79-00-5	
Trichloroethene	**<17.2**	ug/L	40.0	17.2	40		06/14/13 15:54	79-01-6	
Trichlorofluoromethane	**<19.1**	ug/L	40.0	19.1	40		06/14/13 15:54	75-69-4	
1,2,3-Trichloropropane	**<18.7**	ug/L	40.0	18.7	40		06/14/13 15:54	96-18-4	
1,2,4-Trimethylbenzene	**<22.9**	ug/L	200	22.9	40		06/14/13 15:54	95-63-6	
1,3,5-Trimethylbenzene	**<100**	ug/L	200	100	40		06/14/13 15:54	108-67-8	
Vinyl chloride	**<7.4**	ug/L	40.0	7.4	40		06/14/13 15:54	75-01-4	
m&p-Xylene	**<32.7**	ug/L	80.0	32.7	40		06/14/13 15:54	179601-23-1	
o-Xylene	**<20.0**	ug/L	40.0	20.0	40		06/14/13 15:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	43-137		40		06/14/13 15:54	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		40		06/14/13 15:54	1868-53-7	
Toluene-d8 (S)	100	%	55-137		40		06/14/13 15:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: SB-501 **Lab ID: 4079312005** Collected: 06/05/13 10:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:47	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:47	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		06/14/13 14:47	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		06/14/13 14:47	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		06/14/13 14:47	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		06/14/13 14:47	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		06/14/13 14:47	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		06/14/13 14:47	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/13 14:47	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		06/14/13 14:47	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		06/14/13 14:47	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		06/14/13 14:47	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		06/14/13 14:47	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		06/14/13 14:47	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:47	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		06/14/13 14:47	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		06/14/13 14:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		06/14/13 14:47	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:47	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		06/14/13 14:47	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		06/14/13 14:47	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		06/14/13 14:47	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		06/14/13 14:47	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		06/14/13 14:47	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:47	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/14/13 14:47	75-35-4	
cis-1,2-Dichloroethene	**0.76J**	ug/L	1.0	0.42	1		06/14/13 14:47	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		06/14/13 14:47	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:47	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		06/14/13 14:47	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		06/14/13 14:47	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		06/14/13 14:47	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		06/14/13 14:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		06/14/13 14:47	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:47	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:47	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		06/14/13 14:47	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		06/14/13 14:47	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		06/14/13 14:47	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		06/14/13 14:47	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		06/14/13 14:47	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 14:47	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:47	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		06/14/13 14:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		06/14/13 14:47	630-20-6	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: SB-501 **Lab ID: 4079312005** Collected: 06/05/13 10:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		06/14/13 14:47	79-34-5	
Tetrachloroethene	**6.4**	ug/L	1.0	0.47	1		06/14/13 14:47	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		06/14/13 14:47	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		06/14/13 14:47	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 14:47	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		06/14/13 14:47	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		06/14/13 14:47	79-00-5	
Trichloroethene	**0.54J**	ug/L	1.0	0.43	1		06/14/13 14:47	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 14:47	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		06/14/13 14:47	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		06/14/13 14:47	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 14:47	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/14/13 14:47	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		06/14/13 14:47	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 14:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	43-137		1		06/14/13 14:47	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/14/13 14:47	1868-53-7	
Toluene-d8 (S)	99	%	55-137		1		06/14/13 14:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: SB-502 **Lab ID: 4079312006** Collected: 06/05/13 10:45 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 15:09	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 15:09	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		06/14/13 15:09	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		06/14/13 15:09	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		06/14/13 15:09	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		06/14/13 15:09	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		06/14/13 15:09	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		06/14/13 15:09	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/13 15:09	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		06/14/13 15:09	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		06/14/13 15:09	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		06/14/13 15:09	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		06/14/13 15:09	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		06/14/13 15:09	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 15:09	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 15:09	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		06/14/13 15:09	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		06/14/13 15:09	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		06/14/13 15:09	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 15:09	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		06/14/13 15:09	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		06/14/13 15:09	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		06/14/13 15:09	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		06/14/13 15:09	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		06/14/13 15:09	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 15:09	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/14/13 15:09	75-35-4	
cis-1,2-Dichloroethene	**1.8**	ug/L	1.0	0.42	1		06/14/13 15:09	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		06/14/13 15:09	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/14/13 15:09	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		06/14/13 15:09	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		06/14/13 15:09	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		06/14/13 15:09	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		06/14/13 15:09	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		06/14/13 15:09	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/14/13 15:09	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 15:09	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		06/14/13 15:09	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		06/14/13 15:09	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		06/14/13 15:09	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		06/14/13 15:09	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		06/14/13 15:09	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 15:09	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 15:09	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		06/14/13 15:09	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		06/14/13 15:09	630-20-6	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: SB-502 **Lab ID: 4079312006** Collected: 06/05/13 10:45 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		06/14/13 15:09	79-34-5	
Tetrachloroethene	**3.7**	ug/L	1.0	0.47	1		06/14/13 15:09	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		06/14/13 15:09	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		06/14/13 15:09	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 15:09	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		06/14/13 15:09	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		06/14/13 15:09	79-00-5	
Trichloroethene	**2.0**	ug/L	1.0	0.43	1		06/14/13 15:09	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 15:09	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		06/14/13 15:09	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		06/14/13 15:09	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 15:09	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/14/13 15:09	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		06/14/13 15:09	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 15:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	43-137		1		06/14/13 15:09	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		06/14/13 15:09	1868-53-7	
Toluene-d8 (S)	102	%	55-137		1		06/14/13 15:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: QC-1 **Lab ID: 4079312007** Collected: 06/05/13 11:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:55	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:55	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		06/14/13 10:55	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		06/14/13 10:55	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		06/14/13 10:55	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		06/14/13 10:55	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		06/14/13 10:55	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		06/14/13 10:55	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/13 10:55	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		06/14/13 10:55	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		06/14/13 10:55	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		06/14/13 10:55	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		06/14/13 10:55	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		06/14/13 10:55	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:55	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:55	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		06/14/13 10:55	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		06/14/13 10:55	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		06/14/13 10:55	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:55	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		06/14/13 10:55	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		06/14/13 10:55	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		06/14/13 10:55	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		06/14/13 10:55	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		06/14/13 10:55	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:55	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/14/13 10:55	75-35-4	
cis-1,2-Dichloroethene	**0.56J**	ug/L	1.0	0.42	1		06/14/13 10:55	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		06/14/13 10:55	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:55	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		06/14/13 10:55	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		06/14/13 10:55	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		06/14/13 10:55	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		06/14/13 10:55	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		06/14/13 10:55	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:55	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:55	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		06/14/13 10:55	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		06/14/13 10:55	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		06/14/13 10:55	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		06/14/13 10:55	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		06/14/13 10:55	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 10:55	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:55	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		06/14/13 10:55	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		06/14/13 10:55	630-20-6	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: QC-1 **Lab ID: 4079312007** Collected: 06/05/13 11:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		06/14/13 10:55	79-34-5	
Tetrachloroethene	**3.4**	ug/L	1.0	0.47	1		06/14/13 10:55	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		06/14/13 10:55	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		06/14/13 10:55	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 10:55	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		06/14/13 10:55	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		06/14/13 10:55	79-00-5	
Trichloroethene	**2.5**	ug/L	1.0	0.43	1		06/14/13 10:55	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		06/14/13 10:55	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		06/14/13 10:55	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		06/14/13 10:55	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		06/14/13 10:55	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/14/13 10:55	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		06/14/13 10:55	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		06/14/13 10:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	43-137		1		06/14/13 10:55	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/14/13 10:55	1868-53-7	
Toluene-d8 (S)	100	%	55-137		1		06/14/13 10:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: TRIP BLANK **Lab ID: 4079312008** Collected: 06/05/13 00:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/17/13 07:31	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		06/17/13 07:31	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		06/17/13 07:31	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		06/17/13 07:31	75-27-4	
Bromoform	**<0.23**	ug/L	1.0	0.23	1		06/17/13 07:31	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		06/17/13 07:31	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		06/17/13 07:31	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		06/17/13 07:31	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/17/13 07:31	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		06/17/13 07:31	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		06/17/13 07:31	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		06/17/13 07:31	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		06/17/13 07:31	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		06/17/13 07:31	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/17/13 07:31	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		06/17/13 07:31	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		06/17/13 07:31	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		06/17/13 07:31	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		06/17/13 07:31	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		06/17/13 07:31	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		06/17/13 07:31	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		06/17/13 07:31	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		06/17/13 07:31	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		06/17/13 07:31	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		06/17/13 07:31	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		06/17/13 07:31	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/17/13 07:31	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		06/17/13 07:31	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		06/17/13 07:31	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/17/13 07:31	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		06/17/13 07:31	142-28-9	
2,2-Dichloropropane	**<0.37**	ug/L	1.0	0.37	1		06/17/13 07:31	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		06/17/13 07:31	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		06/17/13 07:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		06/17/13 07:31	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/17/13 07:31	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/17/13 07:31	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		06/17/13 07:31	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		06/17/13 07:31	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		06/17/13 07:31	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		06/17/13 07:31	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		06/17/13 07:31	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/17/13 07:31	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/17/13 07:31	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		06/17/13 07:31	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		06/17/13 07:31	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Sample: TRIP BLANK **Lab ID: 4079312008** Collected: 06/05/13 00:00 Received: 06/08/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		06/17/13 07:31	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		06/17/13 07:31	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		06/17/13 07:31	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		06/17/13 07:31	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		06/17/13 07:31	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		06/17/13 07:31	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		06/17/13 07:31	79-00-5	
Trichloroethene	**<0.43**	ug/L	1.0	0.43	1		06/17/13 07:31	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		06/17/13 07:31	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		06/17/13 07:31	96-18-4	
1,2,4-Trimethylbenzene	**<0.57**	ug/L	5.0	0.57	1		06/17/13 07:31	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	1		06/17/13 07:31	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/17/13 07:31	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		06/17/13 07:31	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		06/17/13 07:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	43-137		1		06/17/13 07:31	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/17/13 07:31	1868-53-7	
Toluene-d8 (S)	100	%	55-137		1		06/17/13 07:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

QC Batch: MSV/20035 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4079312001, 4079312002, 4079312003, 4079312004, 4079312005, 4079312006, 4079312007, 4079312008

METHOD BLANK: 805498 Matrix: Water
Associated Lab Samples: 4079312001, 4079312002, 4079312003, 4079312004, 4079312005, 4079312006, 4079312007, 4079312008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.45	1.0	06/14/13 06:01	
1,1,1-Trichloroethane	ug/L	<0.44	1.0	06/14/13 06:01	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/14/13 06:01	
1,1,2-Trichloroethane	ug/L	<0.39	1.0	06/14/13 06:01	
1,1-Dichloroethane	ug/L	<0.28	1.0	06/14/13 06:01	
1,1-Dichloroethene	ug/L	<0.43	1.0	06/14/13 06:01	
1,1-Dichloropropene	ug/L	<0.51	1.0	06/14/13 06:01	
1,2,3-Trichlorobenzene	ug/L	<0.77	5.0	06/14/13 06:01	
1,2,3-Trichloropropane	ug/L	<0.47	1.0	06/14/13 06:01	
1,2,4-Trichlorobenzene	ug/L	<2.5	5.0	06/14/13 06:01	
1,2,4-Trimethylbenzene	ug/L	<0.57	5.0	06/14/13 06:01	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	5.0	06/14/13 06:01	
1,2-Dibromoethane (EDB)	ug/L	<0.38	1.0	06/14/13 06:01	
1,2-Dichlorobenzene	ug/L	<0.44	1.0	06/14/13 06:01	
1,2-Dichloroethane	ug/L	<0.48	1.0	06/14/13 06:01	
1,2-Dichloropropane	ug/L	<0.50	1.0	06/14/13 06:01	
1,3,5-Trimethylbenzene	ug/L	<2.5	5.0	06/14/13 06:01	
1,3-Dichlorobenzene	ug/L	<0.45	1.0	06/14/13 06:01	
1,3-Dichloropropane	ug/L	<0.46	1.0	06/14/13 06:01	
1,4-Dichlorobenzene	ug/L	<0.43	1.0	06/14/13 06:01	
2,2-Dichloropropane	ug/L	<0.37	1.0	06/14/13 06:01	
2-Chlorotoluene	ug/L	<0.48	1.0	06/14/13 06:01	
4-Chlorotoluene	ug/L	<0.48	1.0	06/14/13 06:01	
Benzene	ug/L	<0.50	1.0	06/14/13 06:01	
Bromobenzene	ug/L	<0.48	1.0	06/14/13 06:01	
Bromochloromethane	ug/L	<0.49	1.0	06/14/13 06:01	
Bromodichloromethane	ug/L	<0.45	1.0	06/14/13 06:01	
Bromoform	ug/L	<0.23	1.0	06/14/13 06:01	
Bromomethane	ug/L	<0.43	5.0	06/14/13 06:01	
Carbon tetrachloride	ug/L	<0.37	1.0	06/14/13 06:01	
Chlorobenzene	ug/L	<0.36	1.0	06/14/13 06:01	
Chloroethane	ug/L	<0.44	1.0	06/14/13 06:01	
Chloroform	ug/L	<0.69	5.0	06/14/13 06:01	
Chloromethane	ug/L	<0.39	1.0	06/14/13 06:01	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	06/14/13 06:01	
cis-1,3-Dichloropropene	ug/L	<0.29	1.0	06/14/13 06:01	
Dibromochloromethane	ug/L	<1.9	5.0	06/14/13 06:01	
Dibromomethane	ug/L	<0.48	1.0	06/14/13 06:01	
Dichlorodifluoromethane	ug/L	<0.40	1.0	06/14/13 06:01	
Diisopropyl ether	ug/L	<0.50	1.0	06/14/13 06:01	
Ethylbenzene	ug/L	<0.50	1.0	06/14/13 06:01	
Hexachloro-1,3-butadiene	ug/L	<1.3	5.0	06/14/13 06:01	
Isopropylbenzene (Cumene)	ug/L	<0.34	1.0	06/14/13 06:01	

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QUALITY CONTROL DATA

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

METHOD BLANK: 805498 Matrix: Water

Associated Lab Samples: 4079312001, 4079312002, 4079312003, 4079312004, 4079312005, 4079312006, 4079312007, 4079312008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<0.82	2.0	06/14/13 06:01	
Methyl-tert-butyl ether	ug/L	<0.49	1.0	06/14/13 06:01	
Methylene Chloride	ug/L	<0.36	1.0	06/14/13 06:01	
n-Butylbenzene	ug/L	<0.40	1.0	06/14/13 06:01	
n-Propylbenzene	ug/L	<0.50	1.0	06/14/13 06:01	
Naphthalene	ug/L	<2.5	5.0	06/14/13 06:01	
o-Xylene	ug/L	<0.50	1.0	06/14/13 06:01	
p-Isopropyltoluene	ug/L	<0.40	1.0	06/14/13 06:01	
sec-Butylbenzene	ug/L	<0.60	5.0	06/14/13 06:01	
Styrene	ug/L	<0.35	1.0	06/14/13 06:01	
tert-Butylbenzene	ug/L	<0.42	1.0	06/14/13 06:01	
Tetrachloroethene	ug/L	<0.47	1.0	06/14/13 06:01	
Toluene	ug/L	<0.44	1.0	06/14/13 06:01	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	06/14/13 06:01	
trans-1,3-Dichloropropene	ug/L	<0.26	1.0	06/14/13 06:01	
Trichloroethene	ug/L	<0.43	1.0	06/14/13 06:01	
Trichlorofluoromethane	ug/L	<0.48	1.0	06/14/13 06:01	
Vinyl chloride	ug/L	<0.18	1.0	06/14/13 06:01	
4-Bromofluorobenzene (S)	%	94	43-137	06/14/13 06:01	
Dibromofluoromethane (S)	%	99	70-130	06/14/13 06:01	
Toluene-d8 (S)	%	100	55-137	06/14/13 06:01	

LABORATORY CONTROL SAMPLE & LCSD: 805499 805500

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.5	49.4	99	99	70-136	0	20	
1,1,2,2-Tetrachloroethane	ug/L	50	50.0	52.2	100	104	70-130	4	20	
1,1,2-Trichloroethane	ug/L	50	49.1	52.5	98	105	70-130	7	20	
1,1-Dichloroethane	ug/L	50	53.1	52.4	106	105	70-146	1	20	
1,1-Dichloroethene	ug/L	50	55.3	53.9	111	108	70-130	2	20	
1,2,4-Trichlorobenzene	ug/L	50	42.8	45.4	86	91	70-130	6	20	
1,2-Dibromo-3-chloropropane	ug/L	50	46.9	44.5	94	89	46-150	5	20	
1,2-Dibromoethane (EDB)	ug/L	50	50.7	52.5	101	105	70-130	4	20	
1,2-Dichlorobenzene	ug/L	50	49.2	49.9	98	100	70-130	1	20	
1,2-Dichloroethane	ug/L	50	48.5	48.2	97	96	70-144	1	20	
1,2-Dichloropropane	ug/L	50	54.4	54.7	109	109	70-136	1	20	
1,3-Dichlorobenzene	ug/L	50	48.3	49.5	97	99	70-130	3	20	
1,4-Dichlorobenzene	ug/L	50	47.9	49.6	96	99	70-130	3	20	
Benzene	ug/L	50	55.2	55.4	110	111	70-137	0	20	
Bromodichloromethane	ug/L	50	51.4	52.0	103	104	70-133	1	20	
Bromoform	ug/L	50	47.9	50.9	96	102	59-130	6	20	
Bromomethane	ug/L	50	40.7	42.3	81	85	41-148	4	20	
Carbon tetrachloride	ug/L	50	50.1	50.5	100	101	70-154	1	20	
Chlorobenzene	ug/L	50	51.6	54.0	103	108	70-130	4	20	
Chloroethane	ug/L	50	56.4	56.9	113	114	70-139	1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

LABORATORY CONTROL SAMPLE & LCSD: 805499 805500

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	50	49.9	51.3	100	103	70-130	3	20	
Chloromethane	ug/L	50	48.8	48.5	98	97	45-154	1	20	
cis-1,2-Dichloroethene	ug/L	50	54.3	53.1	109	106	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	50	48.3	50.6	97	101	70-136	5	20	
Dibromochloromethane	ug/L	50	50.0	52.7	100	105	70-130	5	20	
Dichlorodifluoromethane	ug/L	50	43.1	42.3	86	85	20-157	2	20	
Ethylbenzene	ug/L	50	52.0	54.7	104	109	70-130	5	20	
Isopropylbenzene (Cumene)	ug/L	50	50.7	52.8	101	106	70-130	4	20	
m&p-Xylene	ug/L	100	106	111	106	111	70-130	5	20	
Methyl-tert-butyl ether	ug/L	50	48.4	48.7	97	97	59-141	1	20	
Methylene Chloride	ug/L	50	54.1	54.9	108	110	70-130	1	20	
o-Xylene	ug/L	50	53.2	55.2	106	110	70-130	4	20	
Styrene	ug/L	50	53.9	55.4	108	111	70-130	3	20	
Tetrachloroethene	ug/L	50	49.8	52.2	100	104	70-130	5	20	
Toluene	ug/L	50	52.4	54.7	105	109	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	50	54.5	54.6	109	109	70-130	0	20	
trans-1,3-Dichloropropene	ug/L	50	51.0	53.7	102	107	55-135	5	20	
Trichloroethene	ug/L	50	51.6	52.0	103	104	70-130	1	20	
Trichlorofluoromethane	ug/L	50	52.1	53.2	104	106	50-150	2	20	
Vinyl chloride	ug/L	50	58.8	57.2	118	114	61-143	3	20	
4-Bromofluorobenzene (S)	%				97	98	43-137			
Dibromofluoromethane (S)	%				99	97	70-130			
Toluene-d8 (S)	%				97	100	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 805600 805601

Parameter	Units	4079315025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	6.8	50	50	57.2	57.7	101	102	70-136	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	51.3	51.9	103	104	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.39	50	50	52.2	52.3	104	105	70-130	0	20	
1,1-Dichloroethane	ug/L	8.4	50	50	63.3	64.0	110	111	70-146	1	20	
1,1-Dichloroethene	ug/L	8.7	50	50	63.1	64.1	109	111	70-130	2	20	
1,2,4-Trichlorobenzene	ug/L	<2.5	50	50	47.9	45.4	95	90	70-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	45.6	43.8	91	88	46-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	51.9	51.3	104	103	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.44	50	50	52.2	50.2	104	100	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.48	50	50	49.3	48.9	99	98	70-146	1	20	
1,2-Dichloropropane	ug/L	<0.50	50	50	55.3	57.4	111	115	70-136	4	20	
1,3-Dichlorobenzene	ug/L	<0.45	50	50	51.1	51.5	102	103	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.43	50	50	51.6	50.4	103	101	70-130	2	20	
Benzene	ug/L	<0.50	50	50	57.0	58.0	114	116	70-137	2	20	
Bromodichloromethane	ug/L	<0.45	50	50	52.9	53.7	106	107	70-133	2	20	
Bromoform	ug/L	<0.23	50	50	49.9	49.6	100	99	57-130	1	20	
Bromomethane	ug/L	<0.43	50	50	44.9	44.3	90	89	41-148	1	20	
Carbon tetrachloride	ug/L	<0.37	50	50	51.3	52.7	103	105	70-154	3	20	
Chlorobenzene	ug/L	<0.36	50	50	52.9	53.8	106	108	70-130	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 805600 805601

Parameter	Units	4079315025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloroethane	ug/L	<0.44	50	50	57.7	58.7	115	117	70-140	2	20	
Chloroform	ug/L	<0.69	50	50	51.6	53.5	103	107	70-130	4	20	
Chloromethane	ug/L	<0.39	50	50	50.6	51.7	101	103	45-154	2	20	
cis-1,2-Dichloroethene	ug/L	183	50	50	235	239	105	113	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	50.3	52.3	101	105	70-136	4	20	
Dibromochloromethane	ug/L	<1.9	50	50	52.0	52.1	104	104	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.40	50	50	39.5	40.1	79	80	10-157	1	20	
Ethylbenzene	ug/L	<0.50	50	50	53.4	53.7	107	107	70-130	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.34	50	50	53.3	53.8	107	108	70-130	1	20	
m&p-Xylene	ug/L	<0.82	100	100	112	112	112	112	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<0.49	50	50	49.1	49.9	98	100	59-141	2	20	
Methylene Chloride	ug/L	<0.36	50	50	54.6	54.7	109	109	70-130	0	20	
o-Xylene	ug/L	<0.50	50	50	54.6	55.7	109	111	70-130	2	20	
Styrene	ug/L	<0.35	50	50	53.1	54.4	106	109	35-164	3	20	
Tetrachloroethene	ug/L	<0.47	50	50	52.6	52.1	105	104	70-130	1	20	
Toluene	ug/L	<0.44	50	50	55.4	56.1	111	112	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	30.7	50	50	85.9	88.5	110	116	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	<0.26	50	50	53.6	53.7	107	107	55-137	0	20	
Trichloroethene	ug/L	643	50	50	906	923	526	561	70-130	2	20	E,M1
Trichlorofluoromethane	ug/L	<0.48	50	50	53.4	53.7	107	107	50-150	1	20	
Vinyl chloride	ug/L	20.9	50	50	78.7	79.2	116	117	59-144	1	20	
4-Bromofluorobenzene (S)	%						95	97	43-137			
Dibromofluoromethane (S)	%						100	101	70-130			
Toluene-d8 (S)	%						99	99	55-137			

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 05-529 KLINKE-FOX RUN
Pace Project No.: 4079312

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4079312001	MW-2	EPA 8260	MSV/20035		
4079312002	MW-5	EPA 8260	MSV/20035		
4079312003	MW-6	EPA 8260	MSV/20035		
4079312004	MW-10	EPA 8260	MSV/20035		
4079312005	SB-501	EPA 8260	MSV/20035		
4079312006	SB-502	EPA 8260	MSV/20035		
4079312007	QC-1	EPA 8260	MSV/20035		
4079312008	TRIP BLANK	EPA 8260	MSV/20035		