

# HRP Associates, Inc.

*Creating the Right Solutions Together*

July 11, 2012

Mr. David Sordi, P.E., C.E.M.  
Senior Manager  
Environmental Engineering  
One Centennial Avenue  
Piscataway, NJ 08854

RE: FIRST & SECOND QUARTER 2012 GROUNDWATER QUALITY MONITORING REPORT, FORMER TORRINGTON COMPANY FACILITY, 263 MYRTLE STREET (FORMERLY 37 BOOTH STREET), NEW BRITAIN, CT (HRP #ING0085.GW)

Dear Mr. Sordi:

Attached is the Groundwater Monitoring Report for the first and second quarters of 2012 for the above referenced property.

As you are aware, HRP documented the current status of groundwater conditions at the site in the September 2011 Semi-Annual Groundwater Quality Monitoring Report & Proposed Changes to Groundwater Monitoring Program document dated November 18, 2011. Within this document HRP concluded that compliance with Connecticut Department of Energy & Environmental Protection's (CT DEEP) Remediation Standard Regulations (RSRs) was achieved in all site monitoring wells, with the exception of monitoring well MW-4a.

The CT DEEP approved the proposed changes to the groundwater monitoring program and agreed that following two additional quarterly monitoring events at MW-4a with acceptable results; RSR compliance will have been achieved at all site monitoring wells and the groundwater monitoring program could then be discontinued. Based on this CT DEEP approval, the property was transferred from Cakemaker, LLC to NL Ventures IX Celebration, LLC in May 2012 under a Form IV Filing; indicating that remediation at the site had been completed.

Acceptable results (below RSR criteria) were obtained from the first quarterly sampling event (conducted on February 29<sup>th</sup>) at MW-4a, however; the second quarterly sampling event (conducted on May 25<sup>th</sup>) indicated concentrations of vinyl chloride in MW-4a that exceeded the applicable Residential Volatilization Criteria (Res VC). This detection of vinyl chloride was confirmed during a re-sampling event conducted June 7<sup>th</sup>. This detection may be attributable to lower groundwater elevations observed during the May event.

Presented herein are the results from the two reduced monitoring events, conducted in late February and May 2012, at monitoring well MW-4A, as well as the results from the periodic light non-aqueous phase liquid (LNAPL) gauging at monitoring well MW-6. Due to the recent detection of vinyl chloride at a concentration exceeding the Res VC, HRP recommends continued monitoring for VOCs in groundwater at monitoring well MW-4a until RSR compliance has been achieved.

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Although a slight increase in LNAPL accumulation was observed at monitoring well MW-6, likely attributable to very low groundwater elevations; it remains HRP's opinion, as previously documented, that the LNAPL has been removed to the maximum extent practicable and that the original intent of the LNAPL gauging as part of the groundwater monitoring program has been achieved. Therefore, HRP recommends discontinuing the LNAPL gauging.

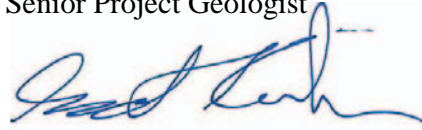
Additional details regarding the proposed changes and recommendations are included within the attached report. If you have any questions or require any additional information, please do not hesitate to contact us at our Farmington, Connecticut office at (860) 674-9570.

Sincerely,

HRP ASSOCIATES, INC.



Stefanie A. Kreipovich  
Senior Project Geologist



Scot Kuhn, LEP  
Team Leader

Attachments

cc: Claire Foster, CT DEEP

**FIRST & SECOND QUARTER 2012  
GROUNDWATER QUALITY MONITORING REPORT**

**FORMER TORRINGTON COMPANY  
263 MYRTLE STREET  
(FORMERLY 37 BOOTH STREET)  
NEW BRITAIN, CONNECTICUT**

**HRP # ING0085.GW**

July 11, 2012

Prepared for:

Ingersoll Rand  
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Prepared by:

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- 2 Summary of Groundwater Analytical Results

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## **1.0 INTRODUCTION**

This report presents the findings of the reduced groundwater monitoring events conducted on February 29, 2012 and May 25, 2012 by HRP Associates, Inc. (HRP), at the former Torrington Company Fafnir Bearing Facility located at 263 Myrtle Street (formerly 37 Booth Street), New Britain, Connecticut (site). Refer to Figure 1 for the topographical location of the site.

### **1.1 Current Site Status**

Ownership of the site was transferred from Ingersoll Rand to the City of New Britain under Connecticut's "Transfer Act" (CGS 22a-134) in 1995 and from the City to Cakemaker LLC in 2007. Due to historic releases, the Connecticut Department of Energy and Environmental Protection (CT DEEP) has retained oversight of the investigation and remediation of the property, to achieve compliance with the Remediation Standard Regulations (RSR), pursuant to the Transfer Act filing.

The site was redeveloped in 2007 with a two-story commercial building, which is primarily used for the creation of ice cream cakes by Celebration Foods. Contaminated soils remaining in-place were encountered during the redevelopment activities. These soils were previously left beneath clean cover material as allowed by the RSR with CT DEEP approval (refer to Section 1.2). During construction activities, contaminated materials were managed in accordance with the Soil Management Plan approved by the CT DEEP in May 2007. All impacted soils encountered during site redevelopment were retained and reused on site except for less than 5 yards of hydraulic oil impacted soils, which were removed from the site for disposal in June 2007. The contaminated soil management activities were documented in the Soil Closure Report submitted to the CT DEEP on April 7, 2010.

Most recently, the site was transferred from Cakemaker, LLC to NL Ventures IX Celebration, LLC in May 2012 under a Form IV Filing; indicating that remediation at the site has been completed.

#### **1.1.1 Environmental Land Use Restriction (ELUR)**

An Environmental Land Use Restriction (ELUR) will be recorded for the property. The terms of the ELUR will:

- Restrict current and future use of the site to commercial and/or industrial
- Limit new construction on-site over areas of impacted groundwater
- Ensure that the building will remain in place and prevent disturbances to the soils which exceed the I/C DEC numeric criteria in localized areas of the property.

A subordination agreement is being negotiated with Connecticut Light & Power (CL&P). Once this agreement is in place, the ELUR will be submitted to CT DEEP for review.

### **1.2 Historical Groundwater Monitoring and Remedial Actions**

HRP conducted soil remediation (soil excavation and off-site disposal) at the site in 1998/99, concurrent with demolition of the former Torrington Company Fafnir Bearing

buildings. Petroleum, arsenic, volatile organic compounds (VOCs), lead, and polychlorinated biphenyl's (PCBs) were all detected in soil at concentrations that exceeded RSR criteria. These soils were remediated to the Industrial/Commercial Direct Exposure Criteria (I/C DEC) in accordance with the RSR and a quarterly post-remediation groundwater monitoring plan was implemented at the site.

Groundwater monitoring was conducted at the site from 2001 to August 2002 on a quarterly basis until it was subsequently reduced to semi-annual due to the persistence of contaminants in groundwater and the presence of light non-aqueous phase liquid (LNAPL) in certain monitoring wells. The monitoring plan was revised again in 2005/2006 to sample fewer wells for ETPH and temporarily discontinuing sampling wells for arsenic (except for RMW-29), cadmium and lead.

Although contaminant concentrations generally decreased, select VOCs persisted in groundwater above RSR Criteria and LNAPL was present at select locations. Therefore, the post-remediation monitoring plan was revised again, submitted to the CT DEEP, and was subsequently approved in February 2008. All post-remediation groundwater monitoring reports have been submitted to the CT DEEP.

Following site redevelopment in 2007, monitoring wells MW-1, MW-2a, MW-3, MW-4a, MW-5, MW-6, MW-7, and MW-8a were installed to various depths as overburden/shallow bedrock wells in January/February 2008. These and existing monitoring wells RMW-3, RMW-15, RMW-17 and RMW-19 (Figure 2), were designed to meet specific goals for both compliance and post-remediation groundwater monitoring at the former Fafnir Bearing Plant. The revised groundwater monitoring program included gauging and sampling the above mentioned monitoring wells for analysis of VOCs, select metals and ETPH as well as to determine if LNAPL of significance was present in any of the wells. Where measured, the LNAPL was removed.

Following the September 2011 groundwater sampling event, RSR compliance was demonstrated at all monitoring wells, with the exception of MW-4a, and HRP recommended the discontinuation of monitoring at all wells except MW-4a. The CT DEEP approved the proposed changes to the groundwater monitoring program and agreed that following additional quarterly monitoring events at MW-4a with acceptable results; RSR compliance will have been achieved at all site monitoring wells and the groundwater monitoring program could then be discontinued.

### **1.2.1 Sub-Slab Depressurization (SSD) System & Soil Gas Sampling**

Since the current commercial building was installed over a large portion of the HVOC plume, a sub-slab depressurization (SSD) system was installed beneath the building at the time of its construction as a precautionary vapor intrusion mitigation measure. Soil gas points from within the building were sampled on a quarterly basis between August 2008 and May 2009 to determine if completion of the SSD system was warranted. The results of the soil gas sampling were consistently below both the current 1996 promulgated numeric comparison criteria of the RSR and the 2003 proposed revisions, where established and the sampling was discontinued in May 2009. No further soil gas sampling is planned, and completion of the SSD system has been determined to be unnecessary.

Please refer to previous 2011 quarterly groundwater monitoring reports for a complete and detailed description of the historical groundwater monitoring, sub-slab depressurization system and remediation history at the site.

## **2.0 FIRST & SECOND QUARTER 2012 GROUNDWATER MONITORING**

As previously documented, compliance with the CT DEEP RSRs has been achieved at all site monitoring wells representing the groundwater plumes, except monitoring well MW-4a. As approved by the CT DEEP, this was the only monitoring well sampled on February 29, 2012 and May 25, 2012. Monitoring well MW-6 was also gauged for the presence of LNAPL concurrently with these sampling events and periodically in between.

### **2.1 Applicable RSR Criteria**

The site is located in a GB groundwater area and, due to the fact that an ELUR will be placed on the site limiting its use to industrial/commercial, the applicable RSR criteria for the site are as follows:

- 2003 proposed Industrial/Commercial Volatilization Criteria (I/C VC)
- 2003 proposed Residential Volatilization Criteria (Res VC), (at the downgradient property boundary)
- Surface Water Protection Criteria (SWPC) or Alternative SWPC (ASWPC)

All groundwater monitoring results from this site are compared to the 2003 proposed I/C VC, and groundwater results from monitoring wells proximal to the downgradient property boundary are compared to the 2003 proposed Res VC, approved by the CT DEEP for use at the site on September 28, 2011. With the exception of arsenic, site groundwater analytical results are also compared to the current 1996 promulgated SWPC. As allowed by the RSR, a self-implementing ASWPC has been calculated for arsenic within the on-site groundwater plume. By definition, plume-specific ASWPC supersede the default SWPC.

Please refer to previous 2011 quarterly groundwater monitoring reports for a complete and detailed description of the applicable RSR criteria and how the alternative criteria was calculated for use at the site.

### **2.2 Groundwater & LNAPL Gauging Data**

The depth to groundwater was measured at all monitoring wells during the May 25, 2012 sampling event and ranged from 5.78 feet (MW-1) to 27.74 feet (MW-4b) below grade. These measurements are generally consistent with seasonally low groundwater levels.

Groundwater flow across the site in the overburden/shallow bedrock and bedrock aquifers during the second quarter sampling event was to the south-southeast at average gradients of approximately 0.05 feet per foot (ft/ft), as shown on Figures 2 and 3.

As part of the current groundwater monitoring program, monitoring well MW-6 is gauged for the presence of accumulated LNAPL on a bi-monthly frequency. Former monitoring well RMW-10 was previously located in close proximity of current monitoring well MW-6 and historically contained measurable accumulations of LNAPL at a greater thickness than recently detected (Figure 4).

Accumulated LNAPL was detected at a thickness of approximately 0.3 feet within MW-6 during the February 29<sup>th</sup> and May 25<sup>th</sup> gauging events. The LNAPL trends in monitoring



well MW-6 compared to fluctuations in groundwater elevation are presented on Figure 4, which depicts an overall decreasing trend since remediation was completed in 1999.

A summary of groundwater elevation and LNAPL measurements is provided on Table 1.

### **2.3 Sampling Methods**

Monitoring well MW-4a was sampled utilizing low-flow techniques on February 29<sup>th</sup> and May 25, 2012. Groundwater quality parameters, including pH, temperature, dissolved oxygen (DO), oxygen reduction potential (ORP), turbidity, and specific conductivity, were monitored and recorded until each parameter had stabilized. Upon stabilization, the groundwater samples were collected and submitted to Con-Test Analytical Laboratory (Con-Test), a Connecticut-certified laboratory, for analysis of VOCs by EPA Method 8260C.

The groundwater samples from both events were analyzed in accordance with CT DEEP RCP and a trip blank was also analyzed for QA/QC purposes.

### **2.4 Analytical Results**

1,1,1-Trichloroethane and 1,1-Dichloroethane were detected in MW-4a at concentrations that were below the applicable RSR criteria during the first quarterly sampling event conducted on February 29, 2012. No other VOCs were detected above laboratory detection limits during this sampling event.

Several VOCs were detected in MW-4a during the second quarterly sampling event (conducted on May 25, 2012) including:

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1,2-Trichlorotrifluoroethane
- Chloroethane
- Cis-1,2-Dichloroethylene
- Vinyl Chloride

The concentrations of these VOCs were all below the applicable RSR criteria with the exception of vinyl chloride, which was detected at a concentration that exceeded the proposed Res VC.

Due to the fact that vinyl chloride has not been detected in monitoring well MW-4a since the June 2010 sampling event, this well was re-sampled on June 7, 2012 to confirm this detection. The analytical results from the re-sample indicated the same list of VOCs were detected and confirmed that the concentration of vinyl chloride exceeded applicable RSR criteria. The vinyl chloride trends in MW-4a and other monitoring wells are depicted on Figure 5.

A summary of the analytical data from these sampling events are provided in Table 2 and the laboratory reports are included as Appendix A.

## **2.5 QA/QC**

The groundwater samples from the 2012 first and second quarterly sampling events were collected and handled in accordance with the site-specific monitoring program and HRP's standard operating procedures. The samples were stored on ice and transported under chain-of-custody protocols to Con-Test. The groundwater samples were analyzed and reported in accordance with Connecticut Laboratory Quality Assurance and Quality Control (QA/QC) Guidance - Reasonable Confidence Protocols (RCP), and as such any deviations from the RCP that may affect the usability of the data are documented in the laboratory reports. The laboratory analytical reports included QA/QC certification forms, narratives, analytical results and quality control report, as prescribed by the RCP.

The laboratory analytical report case narratives were also reviewed in accordance with the CT DEEP Data Quality Assessment and Data Usability Evaluation (DQA/DUE). Following a review of the case narratives, laboratory analytical results and the quality control report; the data quality is considered adequate to meet the data quality objectives for the site groundwater monitoring program.

A trip blank was also analyzed for VOCs during each sampling event. VOCs were not detected above laboratory detection limits in any of the trip blanks.

## **2.6 Significant Environmental Hazard (SEH) Evaluation**

The CT DEEP's Significant Environmental Hazard Notification Program (Public Act 98-134, and CGS § 22a-6u) requires concentrations of VOCs greater than 30-times the volatilization criteria appropriate for the land-use within 15 feet beneath a building be reported by the property owner to the CT DEEP. Based on the 2012 first and second quarters groundwater results, a SEH does not exist at the site.

### 3.0 CONCLUSIONS & RECOMMENDATIONS

Monitoring well MW-4a was sampled for analysis of VOCs during the first and second quarters of 2012. Depth to groundwater was measured in the fifteen (15) monitoring wells (MW-1, MW-2a, MW-2b, MW-3, MW-4a, MW-4b, MW-5, MW-6, MW-7, MW-8a, MW-8b, RMW-3, RMW-15, RMW-17 and RMW-19) during the second quarterly sampling event on May 25, 2012. Groundwater flow across the site in the overburden/shallow bedrock and bedrock aquifers was to the south-southeast during the May sampling event, which is consistent with previous data.

#### Analytical Results

Laboratory analytical results from samples collected from MW-4a during the first quarterly sampling event (conducted on February 29, 2012) indicated minor detections of 1,1-dichloroethane and 1,1,1-trichloroethane at concentrations that were below the applicable RSR criteria. All other VOCs were not detected above laboratory detection limits during this sampling event.

Analytical results from the sample collected from MW-4a during the second quarterly sampling event (conducted on May 25, 2012) indicated additional VOCs were detected at concentrations that were below applicable RSR criteria with the exception of vinyl chloride. Vinyl chloride was detected at a concentration which exceeded the proposed 2003 Res VC. This monitoring well was re-sampled on June 7, 2012 and laboratory analytical results confirmed that vinyl chloride was present at a concentration exceeded the proposed 2003 Res VC (Figure 5).

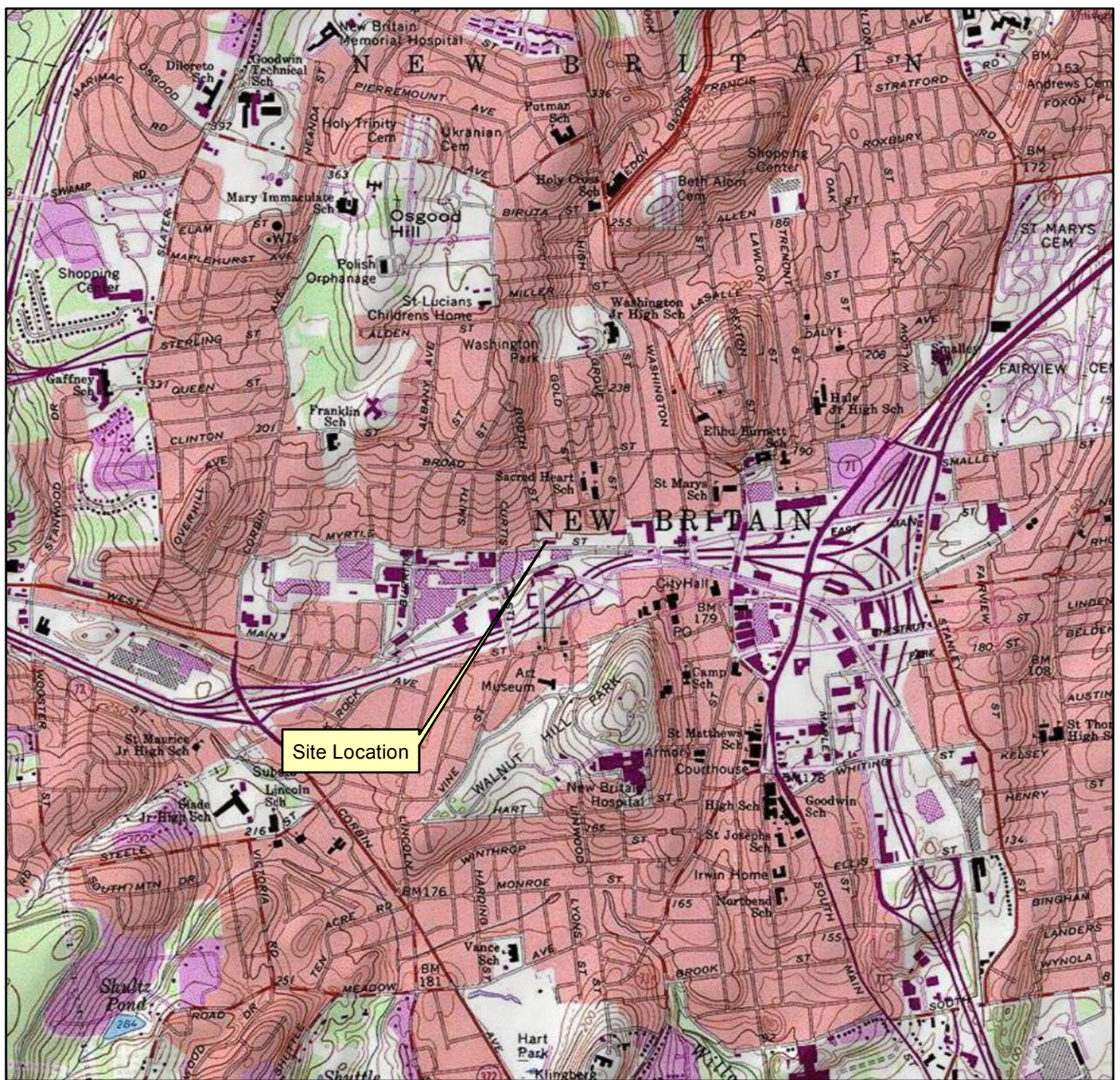
Additional monitoring events with results indicating vinyl chloride is below applicable RSR criteria in monitoring well MW-4a are necessary before compliance is demonstrated at the site. Therefore, HRP recommends continuing the groundwater monitoring program at MW-4a for an additional sampling event during the third quarter 2012 to determine if vinyl chloride persists at concentrations above the Res VC. If vinyl chloride is observed during the third quarter sampling event, the sampling frequency may be reduced from quarterly to semi-annually.

#### LNAPL Gauging

As part of the current groundwater monitoring program, monitoring well MW-6 is gauged for the presence of accumulated LNAPL on a periodic frequency. Accumulated LNAPL was measured in MW-6 and calculated to be approximately 0.006 cubic feet (0.17 liters) during the February 29<sup>th</sup> and May 25<sup>th</sup> gauging events. The LNAPL accumulation in this well continues to indicate a decreasing trend when compared with historical measurements, as depicted on Figure 4, and the recent slight increase in accumulation is attributable to the lower than normal groundwater elevations. Given that the LNAPL has been removed to the maximum extent practicable, as previously documented, HRP recommends discontinuing LNAPL gauging at this well.

## FIGURES





Site Location



1 inch = 2,000 feet

**Figure 1**  
**Site Location**  
**Former Fafnir Bearing**  
**263 Myrtle Street**  
**(formerly 37 Booth Street)**  
**New Britain, Connecticut**  
**HRP # ING0085.GW**  
**Scale 1"=2,000'**

USGS Quadrangle ID 410723-F7  
 Name: New Britain, Connecticut  
 Date Revised: 1982  
 Date Published: 1985

USGS Quadrangle data Copyright: © 2009 National Geographic Society, i-cubedxt

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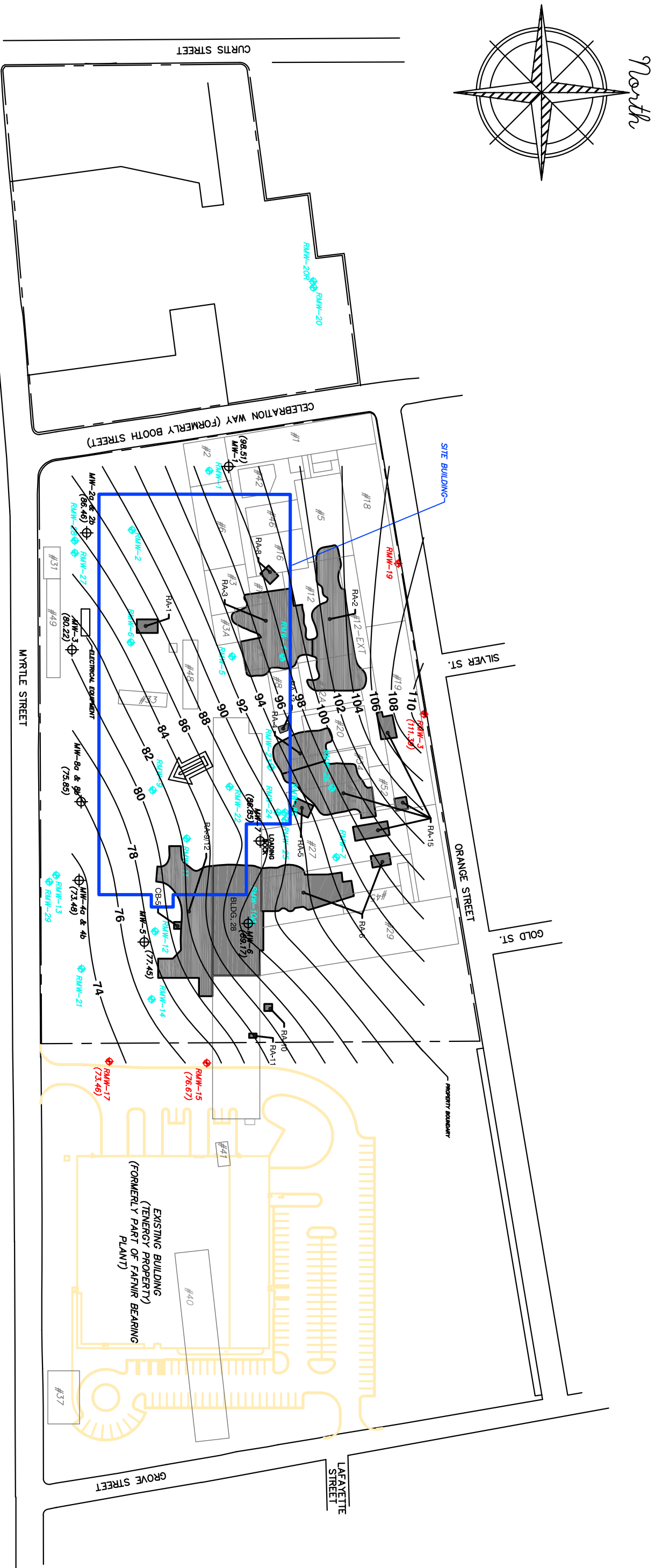
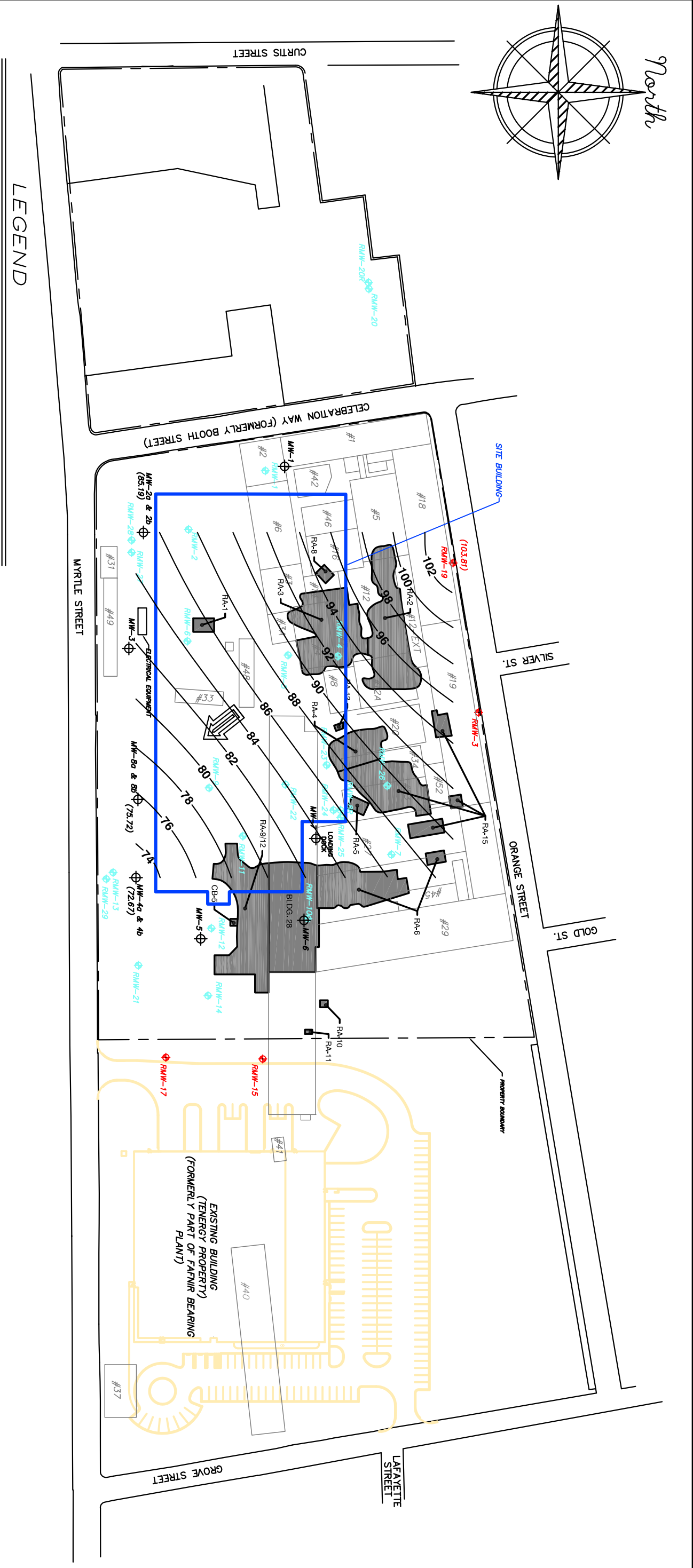


FIGURE 2  
SITE PLAN WITH OVERBURDEN  
GROUNDWATER CONTOURS  
(MAY 2012)  
FORMER FAFNIR BEARING  
NEW BRITAIN, CONNECTICUT  
HRP# ING0085.GW  
SCALE: 1" = 130'

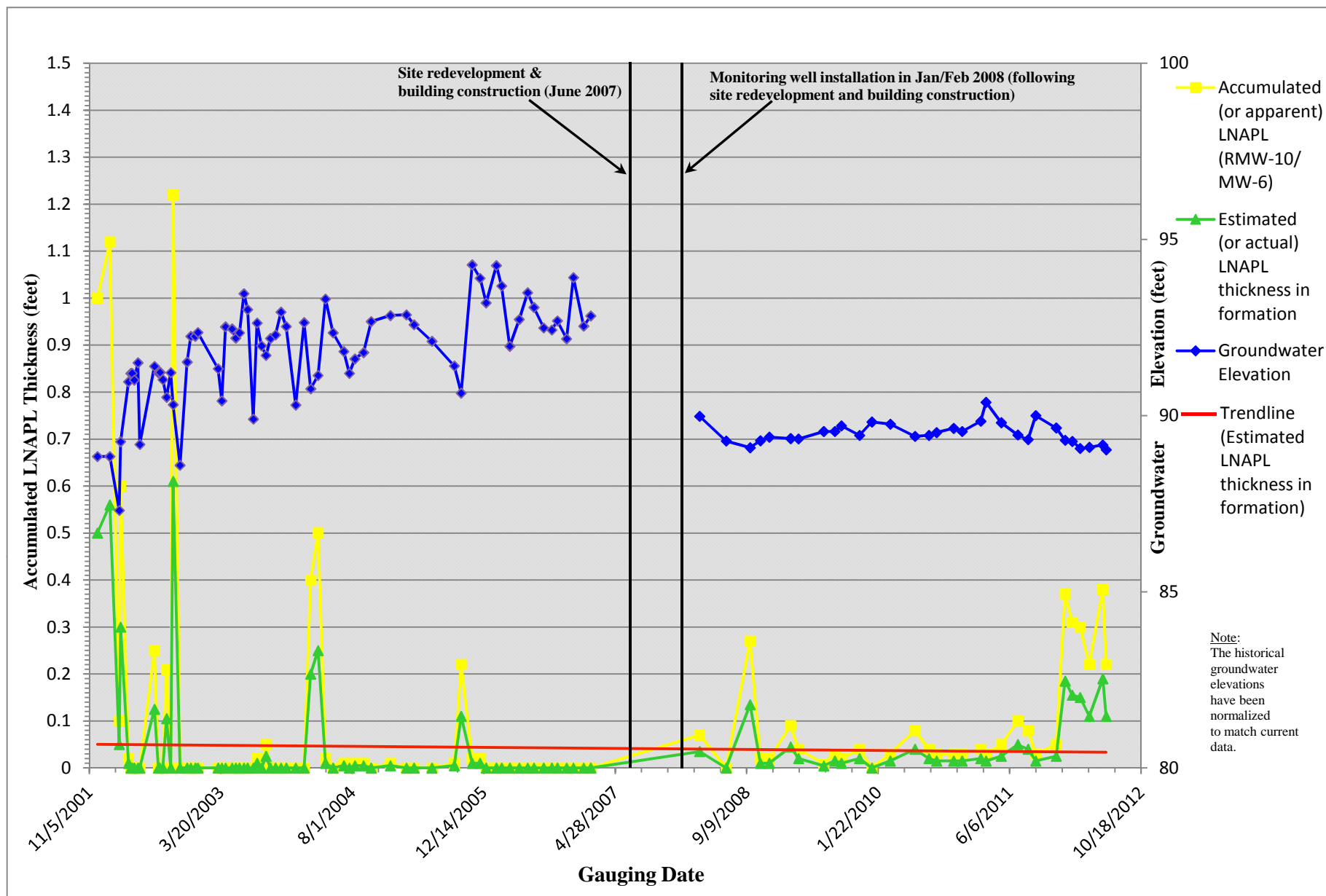
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**FIGURE 4**  
**LNAPL ACCUMULATION (RMW-10/MW-6)**

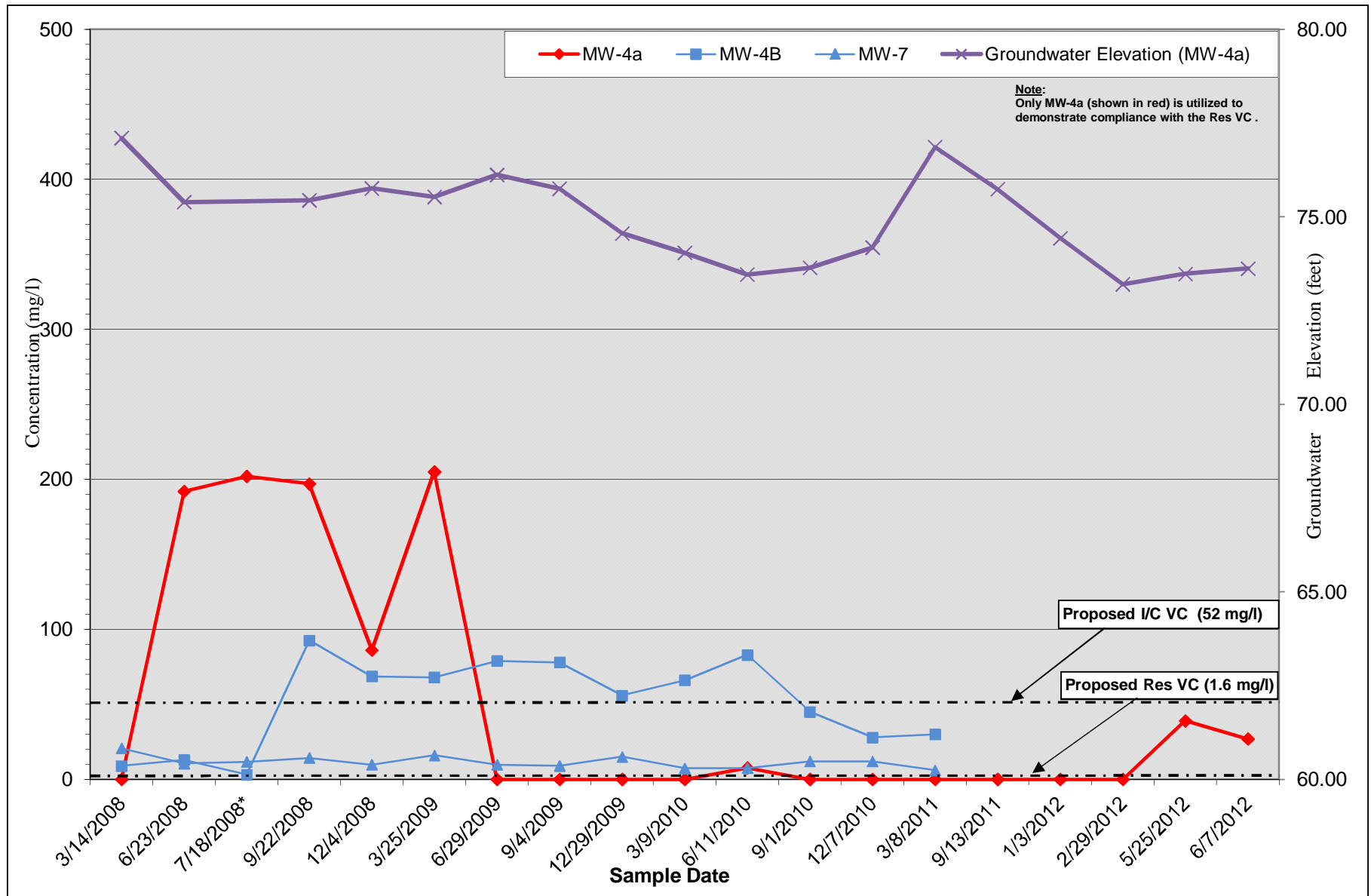
Former Fafnir Bearing Company  
 263 Myrtle Street (formerly 37 Booth Street)  
 New Britain, Connecticut





**FIGURE 5**  
**VINYL CHLORIDE CONCENTRATION TRENDS**

Former Fafnir Bearing Company  
263 Myrtle Street (formerly 37 Booth Street)  
New Britain, Connecticut



## TABLES

TABLE 1  
Monitoring Well Elevation and Gauging Data

Former Torrington Company  
Fafnir Bearing Plant  
263 Myrtle Street  
(formerly 37 Booth Street)  
New Britain, CT

Monitoring Well	Well Construction	Casing Elevation (PVC)	Well Screen	Depth to Bedrock	Gauging Date	Depth to Water	Groundwater Elevation	Depth to LNAPL	LNAPL Thickness	Corrected Depth to Water
MW-1	Overburden/Bedrock	104.29	3-15'	12'	3/14/2008	4.72	99.57	-	-	-
					6/23/2008	5.7	99.57	-	-	-
					9/22/2008	5.29	99.00	-	-	-
					12/4/2008	5.09	99.20	-	-	-
					3/25/2009	5.09	99.20	-	-	-
					6/29/2009	5.92	98.37	-	-	-
					9/4/2009	5.57	98.72	-	-	-
					12/29/2009	5.05	99.24	-	-	-
					3/9/2010	4.94	99.35	-	-	-
					6/11/2010	5.70	98.59	-	-	-
					9/1/2010	6.24	98.05	-	-	-
					12/7/2010	5.89	98.40	-	-	-
					3/8/2011	4.48	99.81	-	-	-
					9/13/2011	4.83	99.46	-	-	-
MW-2a	Overburden/Bedrock	102.44	11.5-26.5'	24'	2/29/2012	6.38	97.91	-	-	-
					5/25/2012	5.78	98.51	-	-	-
					3/14/2008	14.53	87.91	-	-	-
					6/23/2008	16.12	86.32	-	-	-
					9/22/2008	16.05	86.39	-	-	-
					12/4/2008	15.33	87.11	-	-	-
					3/25/2009	15.27	87.17	-	-	-
					6/29/2009	14.74	87.70	-	-	-
					9/4/2009	15.54	86.90	-	-	-
					12/29/2009	14.49	87.95	-	-	-
					3/9/2010	14.81	87.63	-	-	-
					6/11/2010	16.28	86.16	-	-	-
					9/1/2010	16.48	85.96	-	-	-
					12/7/2010	15.82	86.62	-	-	-
MW-2b	Bedrock	102.30	30-40'	24'	3/8/2011	13.99	88.45	-	-	-
					9/13/2011	14.46	87.98	-	-	-
					2/29/2012	15.85	86.59	-	-	-
					5/25/2012	15.98	86.46	-	-	-
					3/14/2008	16.55	85.75	-	-	-
					6/23/2008	17.86	84.44	-	-	-
					9/22/2008	17.56	84.74	-	-	-
					12/4/2008	16.94	85.36	-	-	-
					3/25/2009	16.82	85.48	-	-	-
					6/29/2009	16.37	85.93	-	-	-
					9/4/2009	17.06	85.24	-	-	-
					12/29/2009	16.21	86.09	-	-	-
					3/9/2010	16.48	85.82	-	-	-
					6/11/2010	17.57	84.73	-	-	-
MW-3	Overburden/Bedrock	103.98	20.5-40.5'	35.5'	9/1/2010	17.80	84.50	-	-	-
					12/7/2010	17.24	85.06	-	-	-
					3/8/2011	15.41	86.89	-	-	-
					9/13/2011	16.05	86.25	-	-	-
					2/29/2012	17.01	85.29	-	-	-
					5/25/2012	17.11	85.19	-	-	-
					3/14/2008	23.06	80.92	-	-	-
					6/23/2008	25.14	78.84	-	-	-
					9/22/2008	24.05	79.93	-	-	-
					12/4/2008	23.86	80.12	-	-	-
					3/25/2009	25.11	78.87	-	-	-
					6/29/2009	24.77	79.21	-	-	-
					9/4/2009	25.11	78.87	-	-	-
					12/29/2009	24.52	79.46	-	-	-
MW-4a	Overburden/Bedrock	100.55	15-35'	30-35'	3/9/2010	24.78	79.20	-	-	-
					6/11/2010	23.69	80.29	-	-	-
					9/1/2010	25.17	78.81	-	-	-
					12/7/2010	25.06	78.92	-	-	-
					3/8/2011	23.69	80.29	-	-	-
					9/13/2011	23.33	80.65	-	-	-
					2/29/2012	24.01	79.97	-	-	-
					5/25/2012	23.76	80.22	-	-	-
					3/14/2008	23.45	77.10	-	-	-
					6/23/2008	25.16	75.39	-	-	-
					7/18/2008	N/A	N/A	-	-	-
					9/22/2008	25.11	75.44	-	-	-
					12/4/2008	24.79	75.76	-	-	-
					3/25/2009	25.02	75.53	-	-	-
MW-4b	Bedrock	100.405	41-51'	30-35'	6/29/2009	24.43	76.12	-	-	-
					9/4/2009	24.80	75.75	-	-	-
					12/29/2009	25.99	74.56	-	-	-
					3/9/2010	26.51	74.04	-	-	-
					6/11/2010	27.09	73.46	-	-	-
					9/1/2010	26.91	73.64	-	-	-
					12/7/2010	26.37	74.18	-	-	-
					3/8/2011	23.69	76.86	-	-	-
					9/13/2011	24.81	75.74	-	-	-
					1/3/2012	26.12	74.43	-	-	-
					2/29/2012	27.35	73.20	-	-	-
					5/25/2012	27.07	73.48	-	-	-
					6/7/2012	26.93	73.62	-	-	-
					3/14/2008	24.59	75.82	-	-	-
					6/23/2008	24.59	75.82	-	-	-
					9/22/2008	25.76	74.65	-	-	-
					12/4/2008	25.64	74.77	-	-	-
					3/25/2009	25.53	74.88	-	-	-
					6/29/2009	25.75	74.66	-	-	-
					9/4/2009	25.63	74.78	-	-	-
					12/29/2009	26.97	73.44	-	-	-
					3/9/2010	27.42	72.99	-	-	-
					6/11/2010	27.68	72.73	-	-	-
					9/1/2010	27.70	72.71	-	-	-
					12/7/2010	27.44	72.97	-	-	-
					3/8/2011	26.15	74.26	-	-	-
					9/13/2011	26.69	73.72	-	-	-
					2/29/2012	27.70	72.71	-	-	-
					5/25/2012	27.74	72.67	-	-	-

TABLE 1  
Monitoring Well Elevation and Gauging Data  
  
Former Torrington Company  
Fafnir Bearing Plant  
263 Myrtle Street  
(formerly 37 Booth Street)  
New Britain, CT

Monitoring Well	Well Construction	Casing Elevation (PVC)	Well Screen	Depth to Bedrock	Gauging Date	Depth to Water	Groundwater Elevation	Depth to LNAPL	LNAPL Thickness	Corrected Depth to Water
MW-5	Overburden/Bedrock	97.72	6.5-26.5'	20.5'	3/14/2008	17.21	80.51	-	-	-
					6/23/2008	20.02	77.70	-	-	-
					9/22/2008	20.17	77.55	-	-	-
					12/4/2008	19.79	77.93	-	-	-
					3/25/2009	19.74	77.98	-	-	-
					6/29/2009	19.25	78.47	-	-	-
					9/4/2009	19.79	77.93	-	-	-
					12/29/2009	18.78	78.94	-	-	-
					3/9/2010	19.32	78.40	-	-	-
					6/11/2010	19.78	77.94	-	-	-
					9/1/2010	19.81	77.91	-	-	-
					12/7/2010	19.98	77.74	-	-	-
					3/8/2011	17.45	80.27	-	-	-
					9/13/2011	18.27	79.45	-	-	-
					2/29/2012	20.76	76.96	-	-	-
MW-6	Overburden/Bedrock	99.46	3-22'	20'	5/25/2012	20.27	77.45	-	-	-
					3/14/2008	9.48	89.98	9.41	0.07	9.42
					6/23/2008	10.18	89.28	-	-	-
					9/22/2008	10.37	89.09	10.10	0.27	10.14
					10/31/2008	10.17	89.29	10.15	0.02	10.15
					12/4/2008	10.07	89.39	10.05	0.02	10.05
					2/23/2009	10.11	89.35	10.02	0.09	10.03
					3/25/2009	10.12	89.34	10.08	0.04	10.09
					6/29/2009	9.91	89.55	Sheen	<0.01	9.91
					8/10/2009	9.91	89.55	9.94	0.03	9.88
					9/4/2009	9.75	89.71	9.73	0.02	9.73
					11/12/2009	10.02	89.44	9.98	0.04	9.99
					12/29/2009	9.64	89.82	-	-	-
					3/9/2010	9.70	89.76	9.67	0.03	9.67
					6/11/2010	10.05	89.41	9.97	0.08	9.98
					8/3/2010	10.02	89.44	9.98	0.04	9.99
					9/1/2010	9.94	89.52	9.91	0.03	9.91
					11/5/2010	9.82	89.64	9.79	0.03	9.79
					12/7/2010	9.91	89.55	9.88	0.03	9.88
					2/16/2011	9.62	89.84	9.58	0.04	9.59
					3/8/2011	9.08	90.38	9.05	0.03	9.05
					5/5/2011	9.66	89.80	9.61	0.05	9.62
					7/7/2011	10.01	89.45	9.91	0.10	9.93
					8/15/2011	10.14	89.32	10.06	0.08	10.07
					9/13/2011	9.46	90.00	9.43	0.03	9.43
					11/30/2011	9.85	89.61	9.80	0.05	9.81
					1/3/2012	10.47	89.30	10.10	0.37	10.16
					1/30/2012	10.45	89.27	10.14	0.31	10.19
					2/29/2012	10.65	89.07	10.35	0.30	10.40
					4/4/2012	10.55	89.10	10.33	0.22	10.36
					5/25/2012	10.61	89.17	10.23	0.38	10.29
					6/7/2012	10.43	89.03	10.21	0.22	10.24
MW-7	Overburden/Bedrock	100.42	5-20'	15'	3/14/2008	11.91	88.51	-	-	-
					6/23/2008	14.11	86.31	-	-	-
					9/22/2008	14.06	86.36	-	-	-
					12/4/2008	13.72	86.70	-	-	-
					3/25/2009	13.83	86.59	-	-	-
					6/29/2009	13.21	87.21	-	-	-
					9/4/2009	13.61	86.81	-	-	-
					12/29/2009	12.66	87.76	-	-	-
					3/9/2010	12.99	87.43	-	-	-
					6/11/2010	13.75	86.67	-	-	-
					9/1/2010	13.64	86.78	-	-	-
					12/7/2010	13.45	86.97	-	-	-
					3/8/2011	11.60	88.82	-	-	-
					9/13/2011	11.58	88.84	-	-	-
					2/29/2012	13.82	86.60	-	-	-
MW-8a	Overburden/Bedrock	103.27	17.5-37.5'	35'	5/25/2012	13.57	86.85	-	-	-
					3/14/2008	26.30	76.97	-	-	-
					6/23/2008	27.68	75.59	-	-	-
					9/22/2008	27.71	75.56	-	-	-
					12/4/2008	27.38	75.89	-	-	-
					3/25/2009	27.51	75.76	-	-	-
					6/29/2009	27.11	76.16	-	-	-
					9/4/2009	27.47	75.80	-	-	-
					12/29/2009	26.91	76.36	-	-	-
					3/9/2010	27.28	75.99	-	-	-
					6/11/2010	27.65	75.62	-	-	-
					9/1/2010	27.60	75.67	-	-	-
					12/7/2010	27.30	75.97	-	-	-
					3/8/2011	26.02	77.25	-	-	-
					9/13/2011	26.50	76.77	-	-	-
MW-8b	Bedrock	103.425	41-51'	35'	2/29/2012	27.72	75.55	-	-	-
					5/25/2012	27.42	75.85	-	-	-
					3/14/2008	26.47	76.96	-	-	-
					6/23/2008	27.86	75.57	-	-	-
					9/22/2008	27.87	75.56	-	-	-
					12/4/2008	27.56	75.87	-	-	-
					3/25/2009	27.70	75.73	-	-	-
					6/29/2009	27.31	76.12	-	-	-
					9/4/2009	27.67	75.76	-	-	-
					12/29/2009	27.10	76.33	-	-	-
					3/9/2010	27.37	76.06	-	-	-
					6/11/2010	27.85	75.58	-	-	-
					9/1/2010	27.82	75.61	-	-	-
					12/7/2010	27.51	75.92	-	-	-
					3/8/2011	26.25	77.18	-	-	-
					9/13/2011	26.73	76.70	-	-	-
					2/29/2012	28.00	75.43	-	-	-
					5/25/2012	27.71	75.72	-	-	-

TABLE 1  
Monitoring Well Elevation and Gauging Data  
  
Former Torrington Company  
Fafnir Bearing Plant  
263 Myrtle Street  
(formerly 37 Booth Street)  
New Britain, CT

Monitoring Well	Well Construction	Casing Elevation (PVC)	Well Screen	Depth to Bedrock	Gauging Date	Depth to Water	Groundwater Elevation	Depth to LNAPL	LNAPL Thickness	Corrected Depth to Water
RMW-3	Overburden/Bedrock	121.07	4-19'	16'	3/14/2008	10.14	110.93	-	-	-
					6/23/2008	NM	NM	-	-	-
					9/22/2008	12.26	108.81	-	-	-
					12/4/2008	11.66	109.41	-	-	-
					3/25/2009	16.12	104.95	-	-	-
					6/29/2009	11.46	109.61	-	-	-
					9/4/2009	9.39	111.68	-	-	-
					12/29/2009	9.21	111.86	-	-	-
					3/9/2010	8.80	112.27	-	-	-
					6/11/2010	9.49	111.58	-	-	-
					9/1/2010	9.30	111.77	-	-	-
					12/7/2010	9.16	111.91	-	-	-
					3/8/2011	7.87	113.20	-	-	-
					9/13/2011	8.85	112.22	-	-	-
					2/29/2012	9.56	111.51	-	-	-
*RMW-15	Overburden/Bedrock	87.42	5-25'	8'	3/14/2008	5.01	82.41	-	-	-
					6/23/2008	11.30	76.12	-	-	-
					9/22/2008	10.91	76.51	-	-	-
					12/4/2008	8.08	79.34	-	-	-
					3/25/2009	10.82	76.60	-	-	-
					6/29/2009	7.89	79.53	-	-	-
					9/4/2009	10.70	76.72	-	-	-
					12/29/2009	5.60	81.82	-	-	-
					3/9/2010	8.44	78.98	-	-	-
					6/11/2010	10.48	76.94	-	-	-
					9/1/2010	10.97	76.45	-	-	-
					12/7/2010	8.71	78.71	-	-	-
					3/8/2011	4.25	83.17	-	-	-
					9/13/2011	7.25	80.17	-	-	-
					2/29/2012	11.13	76.29	-	-	-
*RMW-17	Overburden/Bedrock	87.82	5-25'	9'	3/14/2008	11.73	76.09	-	-	-
					6/23/2008	NM	NM	-	-	-
					9/22/2008	14.26	73.56	-	-	-
					12/4/2008	13.82	74.00	-	-	-
					3/25/2009	14.22	73.60	-	-	-
					6/29/2009	13.48	74.34	-	-	-
					9/4/2009	14.13	73.69	-	-	-
					12/29/2009	11.97	75.85	-	-	-
					3/9/2010	13.45	74.37	-	-	-
					6/11/2010	14.09	73.73	-	-	-
					9/1/2010	14.17	73.65	-	-	-
					12/7/2010	13.67	74.15	-	-	-
					3/8/2011	8.47	79.35	-	-	-
					9/13/2011	12.10	75.72	-	-	-
					2/29/2012	14.73	73.09	-	-	-
RMW-19	Bedrock	121.24	11-26'	12'	5/25/2012	14.36	73.46	-	-	-
					4/25/2002	16.50	104.74	-	-	-
					8/1/2002	17.84	103.40	-	-	-
					7/22/2003	16.49	104.75	-	-	-
					3/14/2008	15.73	105.51	-	-	-
					6/23/2008	NM	NM	-	-	-
					9/22/2008	15.51	105.73	-	-	-
					12/4/2008	16.00	105.24	-	-	-
					3/25/2009	11.54	109.70	-	-	-
					6/29/2009	15.99	105.25	-	-	-
					9/4/2009	17.03	104.21	-	-	-
					12/29/2009	15.62	105.62	-	-	-
					3/9/2010	15.17	106.07	-	-	-
					6/11/2010	18.13	103.11	-	-	-
					9/1/2010	20.61	100.63	-	-	-
					12/7/2010	16.72	104.52	-	-	-
					3/8/2011	13.42	107.82	-	-	-
					9/13/2011	15.63	105.61	-	-	-
					2/29/2012	18.39	102.85	-	-	-
					5/25/2012	17.43	103.81	-	-	-

**Notes:**  
All measurements are in feet  
MW-1 through MW-8 were installed in January/February 2008  
RMW wells were installed prior to 2007/2008 site redevelopment  
LNAPL = Light Non-Aqueous Phase Liquid  
NM = Not measured  
\* = Off-Site Well on Tenergy Property  
PVC = Polyvinyl Chloride  
Corrected Depth to Water calculated:  
CDTW = DTW - APT(specific gravity)  
- APT = Apparent LNAPL thickness  
- Specific gravity estimated to be 0.85









TABLE 2  
Groundwater Analytical Results

Former Torrington Company  
Fafnir Bearing Plant  
263 Myrtle Street  
(formerly 37 Booth Street)  
New Britain, CT

Sample ID	Sample Date	Metals				VOCs																				Other
		Arsenic	Dissolved Arsenic (10 micron filter/0.45 micron filter)	Lead	Cadmium	1,1,1-Trichloroethane	1,1,2-Trichlorotrifluoroethane (freon 113)	1,1,1-Dichloroethane	1,1,2-Dichloroethylene	1,1,2-Dichloroethane	Benzene	Chloroethane	Chloroform	cis-1,2-Dichloroethylene	Dichlorodifluoromethane (Freon 12)	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Trichloroethylene	Trichlorofluoromethane (Freon 11)	Vinyl chloride	
Units		mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l
SWPC		0.004	0.004	0.013	0.006	62000	NE	NE	96	96	710	NE	14100	NE	NE	NE	NE	NE	NE	NE	NE	88	2340	NE	15750	NE
ASWPC		0.014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2003 Proposed I/C VC		NE	NE	NE	NE	16000	NE	41000	920	68	310	29000	62	11000	NE	6800	NE	21000	NE	20000	NE	810	67	4200	52	NE
2003 Proposed Res VC		NE	NE	NE	NE	6500	NE	3000	190	6.5	130	12000	26	830	93	2800	NE	1500	NE	1500	NE	340	27	1300	1.6	NE
MW-8b	3/14/2008	0.006	NA	ND<0.0075	NA	ND<1	ND<1	4.5	ND<1	ND<1	ND<1	13.2	ND<1	1	ND<2	2.6	1.2	1.7	ND<1	1.7	1.2	ND<1	ND<1	ND<1	1.3	1.3
	6/23/2008	0.0055	NA	0.061	NA	ND<1	ND<1	6.1	ND<1	ND<1	ND<1	ND<2	ND<1	1.9	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<0.1	
	9/22/2008	0.0124	NA	0.106	NA	ND<1	ND<1	7.6	ND<1	ND<1	ND<1	ND<2	ND<1	2.3	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	0.8	
	12/4/2008	0.0194	NA	0.211	NA	ND<1	ND<1	8.4	ND<1	ND<1	ND<1	ND<2	ND<1	2.3	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	1.0	ND<1	ND<0.1	
	3/25/2009	0.00128	NA	ND<0.0025	NA	ND<1	ND<0.5	7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	ND<0.5	ND<1	ND<5	ND<1	ND<0.5	ND<0.5	0.5	ND<0.5	0.9	ND<0.5	0.22	
	6/29/2009	ND<0.0020	NA	ND<0.0050	NA	ND<0.5	ND<0.5	7	0.51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.2	ND<0.5	ND<0.5	ND<7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.2	
	9/4/2009	0.0023	NA	ND<0.0050	NA	ND<0.5	ND<0.5	8	0.63	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.1	ND<0.5	ND<0.5	ND<3	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.14	
	12/29/2009	0.0021	NA	ND<0.0050	NA	ND<0.5	ND<0.5	5.8	ND<0.5	ND<0.5	ND<0.5	0.69	ND<0.5	2	ND<0.5	ND<0.5	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.18	
	3/9/2010	0.0026	NA	ND<0.0050	NA	ND<0.5	ND<0.5	6.8	0.55	ND<0.5	ND<0.5	1.6	ND<0.5	2	ND<0.5	ND<0.5	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.16	
	6/11/2010	ND<0.0020	0.0043/0.0044	ND<0.0050	NA	ND<0.5	ND<0.5	5.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	ND<0.5	ND<0.5	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.2	
	9/1/2010	ND<0.0020	NA	ND<0.0050	NA	ND<0.5	ND<0.5	6.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.3	ND<0.5	ND<0.5	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.2	
	12/7/2010	0.0022	NA	NA	NA	NA	ND<0.5	ND<0.5	4.2	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	1.6	ND<0.5	ND<0.5	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.24
	3/8/2011	0.0029	NA	NA	NA	NA	ND<0.5	ND<0.5	2.2	ND<0.5	ND<0.5	ND<0.5	6	ND<0.5	0.87	ND<0.5	0.9	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.43
	9/13/2011	0.0026	NA	NA	NA	NA	ND<0.5	ND<0.5	1.5	ND<0.5	ND<0.5	ND<0.5	3.7	ND<0.5	ND<0.5	1.4	7.8	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.53
RMW-15	3/14/2008	ND<0.0040	NA	ND<0.0075	NA	15.5	1.6	3.3	ND<1	ND<1	ND<1	ND<2	1.5	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	1.4	ND<1	ND<0.1
	6/23/2008	ND<0.0040	NA	ND<0.0075	NA	11	ND<1	4.2	ND<1	ND<1	ND<1	ND<2	2.6	1.4	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<0.1	
	9/22/2008	ND<0.0040	NA	ND<0.0075	NA	8.8	ND<1	3	ND<1	ND<1	ND<1	ND<2	4	2	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<0.1	
	12/4/2008	ND<0.0040	NA	ND<0.0075	NA	5.8	ND<1	5.6	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<0.1	
	3/25/2009	ND<0.0010	NA	ND<0.0025	NA	10	0.7	4.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2	1.9	ND<0.5	ND<1	ND<5	ND<1	ND<0.5	ND<0.5	ND<0.5	0.8	ND<0.5	ND<0.5	0.127	
	6/30/2009	ND<0.0020	NA	ND<0.0050	NA	11	ND<0.5	6.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2	ND<0.5	ND<0.5	ND<7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	0.22	
	9/4/2009	ND<0.0020	NA	ND<0.0050	NA	14	ND<0.5	4.9	0.7	ND<0.5	ND<0.5	2.3	ND<0.5	2.8	ND<0.5	ND<0.5	ND<3	ND<1	ND<1	ND<1	ND<1	1.2	ND<1	ND<2	ND<0.075	
	12/29/2009	ND<0.0020	NA	ND<0.0050	NA	7.2	ND<0.5	3.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.89	1.4	ND<0.5	ND<0.5	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.17	
	3/10/2010	ND<0.0020	NA	ND<0.0050	NA	13	ND<0.5	8	0.61	ND<0.5	ND<0.5	ND<0.5	1.2	2.4	ND<0.5	ND<0.5	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	ND<0.075	
	6/11/2010	ND<0.0020	NA	ND<0.0050	NA	14	0.61	4.7	0.64	ND<0.5	ND<0.5	ND<0.5	2.3	2.5	ND<0.5	ND<0.5	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.076	
	9/1/2010	ND<0.0020	NA	NA	NA	14	0.58	3.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5	3.5	ND<0.5	ND<0.5	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.086	
	12/7/2010	NA	NA	NA	NA	8.4	ND<0.5	5.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.4	1.8	ND<0.5	ND<0.5	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.15	
3/8/2011	NA	NA	NA	NA	5.2	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.71	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2	0.34		

Notes:

Shaded and **bold** cells indicate an exceedance of the 2003 proposed I/C VC and/or the ASWPC (where applicable)

**Bold** cells indicate an exceedance of the current 2003 proposed Res VC and/or the SWP

RSR compliance was achieved at RMW-15, and sampling was discontinued after the 03/2011 event.

SWPC = Surface Water Protection Criteria

ASWPC = Alternative Surface Water Protection Criteria

I/C VC = Industrial/Commercial Volatilization Criteria

ug/l = micrograms per liter

mg/l = milligrams per liter

VOCs = volatile organic compounds

ETPH = extractable total petroleum hydrocarbons

NA = not analyzed

NE = criteria not established

ND<# = not detected above given laboratory detection limit

NS = not sampled

\* Due to the high concentration of vinyl chloride during the June 2008 sampling event,

monitoring well MW-4A was resampled for VOCs only on 7/18/2008

Trans-1,2-Dichloroethylene was detected in MW-4a at a concentration of 0.6 ug/l during the March 2009 sampling eve

1,4-Dichlorobenzene was detected in MW-4A at a concentration of 30 ug/l during the June 2009 sampling event.

1,2,4-Trimethylbenze was detected in MW-2B at a concentration of 0.73 ug/l during the September 2009 sampling event.

Bromodichloromethane was detected in MW-4B at a concentration of 18 ug/l during the September 2009 sampling event.

Acetone was detected in MW-7Dup at a concentration of 5.2 ug/l during the March 2011 sampling event.

**APPENDIX A**

**LABORATORY ANALYTICAL REPORTS**

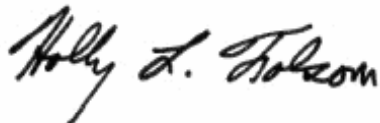
March 8, 2012

Scot Kuhn  
HRP Associates, Inc. (Private)  
197 Scott Swamp Road  
Farmington, CT 06032

Project Location: IR - New Britain  
Client Job Number:  
Project Number: ING0085.GW T-2  
Laboratory Work Order Number: 12C0001

Enclosed are results of analyses for samples received by the laboratory on March 1, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Holly L. Folsom". The signature is written in a cursive, flowing style.

Holly L. Folsom  
Project Manager

HRP Associates, Inc. (Private)  
197 Scott Swamp Road  
Farmington, CT 06032  
ATTN: Scot Kuhn

REPORT DATE: 3/8/2012

PURCHASE ORDER NUMBER: S-CT-01131

PROJECT NUMBER: ING0085.GW T-2

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0001

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: IR - New Britain

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-4a	12C0001-01	Ground Water	Monitor Well	SW-846 8260C	
TB	12C0001-02	Trip Blank Water	Trip Blank	SW-846 8260C	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8260C****Qualifications:**

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

**Analyte & Samples(s) Qualified:****Methylene Chloride**

B047233-BS1

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

**Analyte & Samples(s) Qualified:****Bromoform, Carbon Tetrachloride**

12C0001-01[MW-4a], 12C0001-02[TB], B047233-BLK1, B047233-BS1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

**Analyte & Samples(s) Qualified:****Bromoform, Carbon Tetrachloride**

12C0001-01[MW-4a], 12C0001-02[TB], B047233-BLK1, B047233-BS1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

**Analyte & Samples(s) Qualified:****Methylene Chloride**

B047233-BS1

**SW-846 8260C**

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian  
Laboratory Manager

Project Location: IR - New Britain

Sample Description: Monitor Well

Work Order: 12C0001

Date Received: 3/1/2012

Sampled: 2/29/2012 08:43

Field Sample #: MW-4a

Sample ID: 12C0001-01

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Bromoform	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Bromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Chloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,1-Dichloroethane	3.8	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH

Project Location: IR - New Britain

Sample Description: Monitor Well

Work Order: 12C0001

Date Received: 3/1/2012

Field Sample #: MW-4a

Sampled: 2/29/2012 08:43

Sample ID: 12C0001-01

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Naphthalene	ND	10	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,1,1-Trichloroethane	2.8	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:57	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	98.0	70-130							
Toluene-d8	102	70-130							
4-Bromofluorobenzene	97.3	70-130							

Project Location: IR - New Britain

Sample Description: Trip Blank

Work Order: 12C0001

Date Received: 3/1/2012

Field Sample #: TB

Sampled: 2/29/2012 07:00

Sample ID: 12C0001-02

Sample Matrix: Trip Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Bromoform	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Bromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Chloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH



Project Location: IR - New Britain

Sample Description: Trip Blank

Work Order: 12C0001

Date Received: 3/1/2012

Field Sample #: TB

Sampled: 2/29/2012 07:00

Sample ID: 12C0001-02

Sample Matrix: Trip Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Naphthalene	ND	10	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/2/12	3/3/12 5:26	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	95.7	70-130							
Toluene-d8	98.8	70-130							
4-Bromofluorobenzene	98.4	70-130							

### Sample Extraction Data

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12C0001-01 [MW-4a]	B047233	5	5.00	03/02/12
12C0001-02 [TB]	B047233	5	5.00	03/02/12

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B047233 - SW-846 5030B</b>										
<b>Blank (B047233-BLK1)</b>				Prepared: 03/02/12 Analyzed: 03/03/12						
Acetone	ND	10	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							L-03, V-05
Bromomethane	ND	0.50	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							L-03, V-05
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	1.0	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.40	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	10	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B047233 - SW-846 5030B</b>										
<b>Blank (B047233-BLK1)</b>										
Prepared: 03/02/12 Analyzed: 03/03/12										
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	2.0	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.8		µg/L	25.0		99.2	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			
<b>LCS (B047233-BS1)</b>										
Prepared: 03/02/12 Analyzed: 03/03/12										
Acetone	119	10	µg/L	100		119	70-130			
Acrylonitrile	11.3	2.0	µg/L	10.0		113	70-130			
Benzene	10.2	0.50	µg/L	10.0		102	70-130			
Bromobenzene	10.1	0.50	µg/L	10.0		101	70-130			
Bromodichloromethane	8.80	0.50	µg/L	10.0		88.0	70-130			
<b>Bromoform</b>	6.12	0.50	µg/L	10.0		<b>61.2</b>	* 70-130			L-03, V-05
Bromomethane	11.9	0.50	µg/L	10.0		119	70-130			
2-Butanone (MEK)	120	5.0	µg/L	100		120	70-130			
n-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
sec-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
Carbon Disulfide	107	5.0	µg/L	100		107	70-130			
<b>Carbon Tetrachloride</b>	5.67	0.50	µg/L	10.0		<b>56.7</b>	* 70-130			L-03, V-05
Chlorobenzene	10.2	0.50	µg/L	10.0		102	70-130			
Chlorodibromomethane	7.84	0.50	µg/L	10.0		78.4	70-130			
Chloroethane	10.0	0.50	µg/L	10.0		100	70-130			
Chloroform	9.65	0.50	µg/L	10.0		96.5	70-130			
Chloromethane	12.6	1.0	µg/L	10.0		126	70-130			
2-Chlorotoluene	9.82	0.50	µg/L	10.0		98.2	70-130			
4-Chlorotoluene	10.2	0.50	µg/L	10.0		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.09	1.0	µg/L	10.0		80.9	70-130			
1,2-Dibromoethane (EDB)	9.93	0.50	µg/L	10.0		99.3	70-130			
Dibromomethane	10.0	0.50	µg/L	10.0		100	70-130			
1,2-Dichlorobenzene	9.88	0.50	µg/L	10.0		98.8	70-130			
1,3-Dichlorobenzene	9.98	0.50	µg/L	10.0		99.8	70-130			
1,4-Dichlorobenzene	9.75	0.50	µg/L	10.0		97.5	70-130			
trans-1,4-Dichloro-2-butene	7.51	2.0	µg/L	10.0		75.1	70-130			
Dichlorodifluoromethane (Freon 12)	11.2	0.50	µg/L	10.0		112	70-130			
1,1-Dichloroethane	9.99	0.50	µg/L	10.0		99.9	70-130			
1,2-Dichloroethane	10.5	0.50	µg/L	10.0		105	70-130			
1,1-Dichloroethylene	10.6	0.50	µg/L	10.0		106	70-130			

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B047233 - SW-846 5030B</b>										
<b>LCS (B047233-BS1)</b>				Prepared: 03/02/12 Analyzed: 03/03/12						
cis-1,2-Dichloroethylene	9.76	0.50	µg/L	10.0		97.6	70-130			
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130			
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107	70-130			
2,2-Dichloropropane	7.03	0.50	µg/L	10.0		70.3	70-130			
1,1-Dichloropropene	9.94	0.50	µg/L	10.0		99.4	70-130			
cis-1,3-Dichloropropene	9.02	0.50	µg/L	10.0		90.2	70-130			
trans-1,3-Dichloropropene	8.15	0.50	µg/L	10.0		81.5	70-130			
Ethylbenzene	10.1	0.50	µg/L	10.0		101	70-130			
Hexachlorobutadiene	9.15	0.40	µg/L	10.0		91.5	70-130			
2-Hexanone (MBK)	122	5.0	µg/L	100		122	70-130			
Isopropylbenzene (Cumene)	10.0	0.50	µg/L	10.0		100	70-130			
p-Isopropyltoluene (p-Cymene)	9.93	0.50	µg/L	10.0		99.3	70-130			
Methyl tert-Butyl Ether (MTBE)	10.8	0.50	µg/L	10.0		108	70-130			
<b>Methylene Chloride</b>	13.7	5.0	µg/L	10.0		<b>137</b>	* 70-130			L-01, V-20
4-Methyl-2-pentanone (MIBK)	121	5.0	µg/L	100		121	70-130			
Naphthalene	7.78	10	µg/L	10.0		77.8	70-130			
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1,2-Tetrachloroethane	7.26	0.50	µg/L	10.0		72.6	70-130			
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Tetrachloroethylene	9.88	1.0	µg/L	10.0		98.8	70-130			
Tetrahydrofuran	10.4	10	µg/L	10.0		104	70-130			
Toluene	10.5	1.0	µg/L	10.0		105	70-130			
1,2,3-Trichlorobenzene	9.06	2.0	µg/L	10.0		90.6	70-130			
1,2,4-Trichlorobenzene	9.26	2.0	µg/L	10.0		92.6	70-130			
1,1,1-Trichloroethane	8.26	0.50	µg/L	10.0		82.6	70-130			
1,1,2-Trichloroethane	10.2	0.50	µg/L	10.0		102	70-130			
Trichloroethylene	9.65	1.0	µg/L	10.0		96.5	70-130			
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101	70-130			
1,2,3-Trichloropropane	11.0	0.50	µg/L	10.0		110	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.77	0.50	µg/L	10.0		97.7	70-130			
1,2,4-Trimethylbenzene	10.3	0.50	µg/L	10.0		103	70-130			
1,3,5-Trimethylbenzene	9.96	0.50	µg/L	10.0		99.6	70-130			
Vinyl Chloride	11.2	1.0	µg/L	10.0		112	70-130			
m+p Xylene	20.5	2.0	µg/L	20.0		103	70-130			
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.8		µg/L	25.0		95.2	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.7	70-130			

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME,RI
Benzene	CT,NH,NY,ME,RI
Bromodichloromethane	CT,NH,NY,ME,RI
Bromoform	CT,NH,NY,ME,RI
Bromomethane	CT,NH,NY,ME,RI
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME,RI
Chlorobenzene	CT,NH,NY,ME,RI
Chlorodibromomethane	CT,NH,NY,ME,RI
Chloroethane	CT,NH,NY,ME,RI
Chloroform	CT,NH,NY,ME,RI
Chloromethane	CT,NH,NY,ME,RI
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME,RI
1,3-Dichlorobenzene	CT,NH,NY,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,RI
1,1-Dichloroethane	CT,NH,NY,ME,RI
1,2-Dichloroethane	CT,NH,NY,ME,RI
1,1-Dichloroethylene	CT,NH,NY,ME,RI
cis-1,2-Dichloroethylene	ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME,RI
1,2-Dichloropropane	CT,NH,NY,ME,RI
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,ME,RI
Ethylbenzene	CT,NH,NY,ME,RI
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME

# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,RI
Tetrachloroethylene	CT,NH,NY,ME,RI
Toluene	CT,NH,NY,ME,RI
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,ME,RI
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,RI

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012





39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



## Sample Receipt Checklist

CLIENT NAME: HRP RECEIVED BY: C. C-S. DATE: 3/1/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

Yes No

3) Are all the samples in good condition?

If not, explain:

Yes No

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 5.0°C

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved

Client Signature: \_\_\_\_\_

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>6</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 6 # Methanol \_\_\_\_\_  
# Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_  
# Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Doc# 277

Do all samples have the proper Base pH: Yes No N/A

Rev. 1 May 2

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## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** HRP Associates, Inc. (Private)

**Project Location:** IR - New Britain

**Project Number:** 12C0001

**Laboratory Sample ID(s):**

12C0001-01 thru 12C0001-02

**Sample Date(s):**

02/29/2012

**List RCP Methods Used:**

SW-846 8260C

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

**I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.**

**Authorized Signature:**

**Position:** Laboratory Manager

**Printed Name:** Daren J. Damboragian

**Date:** 03/08/12

**Name of Laboratory:** Con-Test Analytical Laboratory

**This certification form is to be used for RCP methods only.**

June 5, 2012

Stefanie Kreipovich  
HRP Associates, Inc. (Private)  
197 Scott Swamp Road  
Farmington, CT 06032

Project Location: IR New Britain  
Client Job Number:  
Project Number: ING0085.GW  
Laboratory Work Order Number: 12E1026

Enclosed are results of analyses for samples received by the laboratory on May 29, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

HRP Associates, Inc. (Private)  
197 Scott Swamp Road  
Farmington, CT 06032  
ATTN: Stefanie Kreipovich

REPORT DATE: 6/5/2012

PURCHASE ORDER NUMBER: S-CT-01131

PROJECT NUMBER: ING0085.GW

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 12E1026

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: IR New Britain

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-4A	12E1026-01	Ground Water		SW-846 8260C	
Trip Blank	12E1026-02	Trip Blank Water		SW-846 8260C	

#### CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

#### SW-846 8260C

##### Qualifications:

---

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

##### Analyte & Samples(s) Qualified:

##### Bromomethane

B052432-BS1

---

#### SW-846 8260C

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian  
Laboratory Manager

Project Location: IR New Britain

Sample Description:

Work Order: 12E1026

Date Received: 5/29/2012

Sampled: 5/25/2012 10:24

Field Sample #: MW-4A

Sample ID: 12E1026-01

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Chloroethane	20	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,1-Dichloroethane	140	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
cis-1,2-Dichloroethylene	1.6	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD

Project Location: IR New Britain

Sample Description:

Work Order: 12E1026

Date Received: 5/29/2012

Field Sample #: MW-4A

Sampled: 5/25/2012 10:24

Sample ID: 12E1026-01

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,1,1-Trichloroethane	44	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3.5	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Vinyl Chloride	39	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:58	LBD
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	110	70-130							
Toluene-d8	99.8	70-130							
4-Bromofluorobenzene	96.9	70-130							



Project Location: IR New Britain

Sample Description:

Work Order: 12E1026

Date Received: 5/29/2012

Field Sample #: Trip Blank

Sampled: 5/25/2012 07:00

Sample ID: 12E1026-02

Sample Matrix: Trip Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD

Project Location: IR New Britain

Sample Description:

Work Order: 12E1026

Date Received: 5/29/2012

Field Sample #: Trip Blank

Sampled: 5/25/2012 07:00

Sample ID: 12E1026-02

Sample Matrix: Trip Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/30/12	5/30/12 19:28	LBD
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	111	70-130							
Toluene-d8	102	70-130							
4-Bromofluorobenzene	96.6	70-130							

### Sample Extraction Data

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12E1026-01 [MW-4A]	B052432	5	5.00	05/30/12
12E1026-02 [Trip Blank]	B052432	5	5.00	05/30/12

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B052432 - SW-846 5030B**
**Blank (B052432-BLK1)**

Prepared &amp; Analyzed: 05/30/12

Acetone	ND	5.0	µg/L
Acrylonitrile	ND	2.0	µg/L
Benzene	ND	0.50	µg/L
Bromobenzene	ND	0.50	µg/L
Bromodichloromethane	ND	0.50	µg/L
Bromoform	ND	0.50	µg/L
Bromomethane	ND	2.0	µg/L
2-Butanone (MEK)	ND	5.0	µg/L
n-Butylbenzene	ND	1.0	µg/L
sec-Butylbenzene	ND	1.0	µg/L
tert-Butylbenzene	ND	1.0	µg/L
Carbon Disulfide	ND	5.0	µg/L
Carbon Tetrachloride	ND	0.50	µg/L
Chlorobenzene	ND	0.50	µg/L
Chlorodibromomethane	ND	0.50	µg/L
Chloroethane	ND	0.50	µg/L
Chloroform	ND	0.50	µg/L
Chloromethane	ND	0.50	µg/L
2-Chlorotoluene	ND	0.50	µg/L
4-Chlorotoluene	ND	0.50	µg/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L
1,2-Dibromoethane (EDB)	ND	0.50	µg/L
Dibromomethane	ND	0.50	µg/L
1,2-Dichlorobenzene	ND	0.50	µg/L
1,3-Dichlorobenzene	ND	0.50	µg/L
1,4-Dichlorobenzene	ND	0.50	µg/L
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L
1,1-Dichloroethane	ND	0.50	µg/L
1,2-Dichloroethane	ND	0.50	µg/L
1,1-Dichloroethylene	ND	0.50	µg/L
cis-1,2-Dichloroethylene	ND	0.50	µg/L
trans-1,2-Dichloroethylene	ND	1.0	µg/L
1,2-Dichloropropane	ND	0.50	µg/L
1,3-Dichloropropane	ND	0.50	µg/L
2,2-Dichloropropane	ND	0.50	µg/L
1,1-Dichloropropene	ND	0.50	µg/L
cis-1,3-Dichloropropene	ND	0.50	µg/L
trans-1,3-Dichloropropene	ND	0.50	µg/L
Ethylbenzene	ND	0.50	µg/L
Hexachlorobutadiene	ND	0.40	µg/L
2-Hexanone (MBK)	ND	5.0	µg/L
Isopropylbenzene (Cumene)	ND	0.50	µg/L
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L
Methylene Chloride	ND	5.0	µg/L
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L
Naphthalene	ND	2.0	µg/L
n-Propylbenzene	ND	1.0	µg/L
Styrene	ND	1.0	µg/L
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B052432 - SW-846 5030B**
**Blank (B052432-BLK1)**

Prepared &amp; Analyzed: 05/30/12

Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	27.6		µg/L	25.0		110	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	23.7		µg/L	25.0		94.6	70-130			

**LCS (B052432-BS1)**

Prepared &amp; Analyzed: 05/30/12

Acetone	97.6	5.0	µg/L	100		97.6	70-130			
Acrylonitrile	9.86	2.0	µg/L	10.0		98.6	70-130			
Benzene	10.0	0.50	µg/L	10.0		100	70-130			
Bromobenzene	10.0	0.50	µg/L	10.0		100	70-130			
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130			
Bromoform	10.3	0.50	µg/L	10.0		103	70-130			
Bromomethane	11.5	2.0	µg/L	10.0		115	70-130			V-20
2-Butanone (MEK)	102	5.0	µg/L	100		102	70-130			
n-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Carbon Disulfide	110	5.0	µg/L	100		110	70-130			
Carbon Tetrachloride	10.2	0.50	µg/L	10.0		102	70-130			
Chlorobenzene	9.97	0.50	µg/L	10.0		99.7	70-130			
Chlorodibromomethane	10.8	0.50	µg/L	10.0		108	70-130			
Chloroethane	9.47	0.50	µg/L	10.0		94.7	70-130			
Chloroform	10.5	0.50	µg/L	10.0		105	70-130			
Chloromethane	9.07	0.50	µg/L	10.0		90.7	70-130			
2-Chlorotoluene	10.4	0.50	µg/L	10.0		104	70-130			
4-Chlorotoluene	10.6	0.50	µg/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0		107	70-130			
Dibromomethane	10.4	0.50	µg/L	10.0		104	70-130			
1,2-Dichlorobenzene	10.3	0.50	µg/L	10.0		103	70-130			
1,3-Dichlorobenzene	10.4	0.50	µg/L	10.0		104	70-130			
1,4-Dichlorobenzene	10.3	0.50	µg/L	10.0		103	70-130			
trans-1,4-Dichloro-2-butene	8.85	2.0	µg/L	10.0		88.5	70-130			
Dichlorodifluoromethane (Freon 12)	10.1	0.50	µg/L	10.0		101	70-130			
1,1-Dichloroethane	10.3	0.50	µg/L	10.0		103	70-130			
1,2-Dichloroethane	11.6	0.50	µg/L	10.0		116	70-130			
1,1-Dichloroethylene	11.1	0.50	µg/L	10.0		111	70-130			

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B052432 - SW-846 5030B</b>										
<b>LCS (B052432-BS1)</b>				Prepared & Analyzed: 05/30/12						
cis-1,2-Dichloroethylene	10.5	0.50	µg/L	10.0		105	70-130			
trans-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
1,2-Dichloropropane	9.90	0.50	µg/L	10.0		99.0	70-130			
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104	70-130			
2,2-Dichloropropane	9.96	0.50	µg/L	10.0		99.6	70-130			
1,1-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	9.62	0.50	µg/L	10.0		96.2	70-130			
trans-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108	70-130			
Ethylbenzene	10.3	0.50	µg/L	10.0		103	70-130			
Hexachlorobutadiene	11.4	0.40	µg/L	10.0		114	70-130			
2-Hexanone (MBK)	112	5.0	µg/L	100		112	70-130			
Isopropylbenzene (Cumene)	10.5	0.50	µg/L	10.0		105	70-130			
p-Isopropyltoluene (p-Cymene)	11.1	0.50	µg/L	10.0		111	70-130			
Methyl tert-Butyl Ether (MTBE)	10.3	0.50	µg/L	10.0		103	70-130			
Methylene Chloride	10.6	5.0	µg/L	10.0		106	70-130			
4-Methyl-2-pentanone (MIBK)	106	5.0	µg/L	100		106	70-130			
Naphthalene	11.2	2.0	µg/L	10.0		112	70-130			
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Styrene	10.7	1.0	µg/L	10.0		107	70-130			
1,1,1,2-Tetrachloroethane	9.72	0.50	µg/L	10.0		97.2	70-130			
1,1,2,2-Tetrachloroethane	9.54	0.50	µg/L	10.0		95.4	70-130			
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
Tetrahydrofuran	9.31	10	µg/L	10.0		93.1	70-130			
Toluene	10.4	1.0	µg/L	10.0		104	70-130			
1,2,3-Trichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,2,4-Trichlorobenzene	9.49	0.50	µg/L	10.0		94.9	70-130			
1,1,1-Trichloroethane	10.5	0.50	µg/L	10.0		105	70-130			
1,1,2-Trichloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Trichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
Trichlorofluoromethane (Freon 11)	11.8	2.0	µg/L	10.0		118	70-130			
1,2,3-Trichloropropane	10.0	0.50	µg/L	10.0		100	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.1	0.50	µg/L	10.0		121	70-130			
1,2,4-Trimethylbenzene	10.9	0.50	µg/L	10.0		109	70-130			
1,3,5-Trimethylbenzene	10.9	0.50	µg/L	10.0		109	70-130			
Vinyl Chloride	10.4	1.0	µg/L	10.0		104	70-130			
m+p Xylene	21.3	2.0	µg/L	20.0		106	70-130			
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	27.0		µg/L	25.0		108	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME,RI
Benzene	CT,NH,NY,ME,RI
Bromodichloromethane	CT,NH,NY,ME,RI
Bromoform	CT,NH,NY,ME,RI
Bromomethane	CT,NH,NY,ME,RI
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME,RI
Chlorobenzene	CT,NH,NY,ME,RI
Chlorodibromomethane	CT,NH,NY,ME,RI
Chloroethane	CT,NH,NY,ME,RI
Chloroform	CT,NH,NY,ME,RI
Chloromethane	CT,NH,NY,ME,RI
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME,RI
1,3-Dichlorobenzene	CT,NH,NY,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,RI
1,1-Dichloroethane	CT,NH,NY,ME,RI
1,2-Dichloroethane	CT,NH,NY,ME,RI
1,1-Dichloroethylene	CT,NH,NY,ME,RI
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME,RI
1,2-Dichloropropane	CT,NH,NY,ME,RI
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,ME,RI
Ethylbenzene	CT,NH,NY,ME,RI
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME



# CERTIFICATIONS

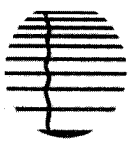
## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,RI
Tetrachloroethylene	CT,NH,NY,ME,RI
Toluene	CT,NH,NY,ME,RI
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,ME,RI
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,RI

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

(5)



**con-test**  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

**CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

12 E 1026

Company Name: HRP Assoc. Inc.

Telephone: 860-674-9570

Address: 197 Staff Swamp Rd

Project # INSG00556w T-2

Farmington CT 06032

Attention: Stefanie Reipovich

DATA DELIVERY (check all that apply)  
☒ FAX ☒ EMAIL ☒ WEBSITE

Project Location: TR New Britain

Fax # Std

Sampled By: KG

Email: ↓

Project Proposal Provided? (for billing purposes)  
☒ Yes Bid # 1110-14 proposal date

Format: ☒ PDF ☒ EXCEL ☐ GIS  
☐ OTHER \_\_\_\_\_

Con-Test Lab ID (laboratory use only)

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix Date

Lab Date

\*Matrix Code

Lab Code

Conc's 8260

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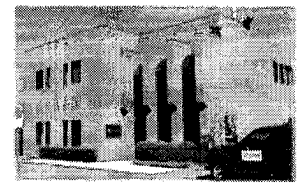
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Relinquished by: (signature) 5/29/12 12:40 Turnaround 7-Day Detection Limit Requirements Massachusetts: Is your project MCP or RCP? MA State DW Form Required PWSID # NEIAC & AIHA Certified WBE/DBE Certified

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



## Sample Receipt Checklist

CLIENT NAME: HRP Assoc. RECEIVED BY: JB DATE: 5/29/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 3.2°c

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved

Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>5</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 5 # Methanol \_\_\_\_\_

Doc# 277 # Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_

Rev. 2 Sept 2011 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** HRP Associates, Inc. (Private)

**Project Location:** IR New Britain

**Project Number:** 12E1026

**Laboratory Sample ID(s):**

12E1026-01 thru 12E1026-02

**Sample Date(s):**

05/25/2012

**List RCP Methods Used:**

SW-846 8260C

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

**I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.**

**Authorized Signature:**

**Position:** Laboratory Manager

**Printed Name:** Daren J. Damboragian

**Date:** 06/05/12

**Name of Laboratory:** Con-Test Analytical Laboratory

**This certification form is to be used for RCP methods only.**