



RCRA FACILITY GROUNDWATER, LEACHATE AND GAS REPORTING FORM

This form must be used as a cover sheet for the notices and reports, identified below as required by: (1) a facility's RCRA interim status closure plan; (2) the RCRA interim status regulations; or (3) a facility's RCRA permit. All reports must be submitted to the Illinois EPA's Bureau of Land Permit Section. This form is for use by Hazardous Waste facilities only. Reporting for Solid Waste facilities should be submitted on a separate form. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

Note: This form is not to be used with permit or closure plan modification requests. The facility's approved permit or closure plan will state whether the document you are submitting is required as a report or a modification request.

Facility Name: Honeywell International, Inc.

Site ID #: 1278540002

Facility Address: Highway 45 North, Metropolis, IL 62960

Fed ID #: ILD006278170

Check the appropriate heading. Only one heading may be checked for each corresponding submittal. Check the appropriate sub-heading, where applicable. Attach the original and all copies behind this form.

☐ LPC-160 Forms

☐ Groundwater

☐ Quarterly – Indicate one: 1 2 3 4

☐ Semi-Annual

☐ Annual

☐ Biennial

☐ Leachate

☐ Quarterly – Indicate one: 1 2 3 4

☐ Semi-Annual

☐ Annual

☐ Biennial

☐ Groundwater Data (without LPC-160 Forms)

☐ Quarterly – Indicate one: 1 2 3 4

☐ Annual

☐ Semi-Annual

☐ Biennial

☐ Well Construction Information

☐ Well Construction Forms, Boring Logs and/or Abandonment Forms

☐ Well Survey Data (e.g., Stick-up Elevation Data)

☐ Notice of Statistically Significant Evidence of Groundwater Contamination
(35 Ill. Adm. Code 724.198)

☐ Notice of Exceedence of Groundwater Concentration Limit (35 Ill. Adm. Code 724.199(h))

☐ Notice of Alternate Source or Error in Sampling Analysis or Evaluation of Groundwater
(35 Ill. Adm. Code 724.199(i))

☐ Gas Monitoring Reports

☒ Other (identify) Honeywell 4thQtr09 Confirmed RCRA Part B Groundwater Report



January 13, 2010

Illinois Environmental Protection Agency
Reporting and Financial Assurance Unit
Bureau of Land – #33
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Re: 1278540002 – Massac County
Honeywell International Inc.
Fourth Quarter 2009 RCRA Part B Permit Confirmed Groundwater Monitoring Review

Dear Agency Representative:

On behalf of our client, Honeywell International, Inc. (Honeywell), and in accordance with Honeywell's RCRA Part B Permit Groundwater Monitoring Program, Permit No. B-65R-M-10, submitted herein is a summary of the confirmed groundwater monitoring results for the fourth quarter 2009.

A background exceedence of gross alpha was observed at well G105 during the initial fourth quarter 2009 sampling event. In accordance with Condition III.J.11 of Permit No. B-65R-M-10, confirmation sampling for gross alpha was conducted at well G105. Concentrations of gross alpha at G105 did not exceed background during the confirmation sampling event. Confirmation sample results are included in Attachment A. The statistical analysis for the fourth quarter 2009 confirmation sampling event is provided in Attachment B.

In accordance with Condition III.F.4, if the concentration of gross alpha exceeds 5 pCi/L in any of the samples, an analysis to determine the amount of radium-226 present in the sample must be conducted. During the initial fourth quarter 2009 sampling event, one of the four replicate samples at G105 contained gross alpha at 5.3 pCi/L. Therefore, in accordance with Condition III.F.4, the amount of radium-226 was analyzed at G105. Radium-226 results (0.41 pCi/L) from well G105 are provided in Attachment A. It should be noted that although the concentration of gross alpha exceeded 5 pCi/L the concentration of gross alpha is well below the maximum contaminant level of 15 pCi/L in accordance with 35 Ill. Adm. Code 611.330(c).

Conclusion

This review is conducted in accordance with the RCRA Part B Permit Groundwater Monitoring Program of Permit No. B-65R-M-10. As discussed previously, the observed background exceedence of gross alpha at G105 was not confirmed for fourth quarter 2009. In addition, in accordance with Condition III.F.4, the concentration of Radium-226 at G105 was measured at 0.41 pCi/L. The results of the confirmation sampling, and Radium-226 analysis indicate no further action is necessary.

Should you have any questions regarding this notification, please contact me at (217) 787-2334. Thank you.

Sincerely,

A handwritten signature in dark ink, appearing to read "Teresa N. Sharp", is written over a horizontal line.

Teresa N. Sharp
Environmental Scientist

TNS:tns:sjb

Enclosure

cc: Richard Thomas – Honeywell International, Inc. Metropolis
Gene Thomas – Honeywell International, Inc.
Chuck Geadelmann – Honeywell International, Inc.
Nelson Johnson – Arnold & Porter, LLP
Mara Hollinbeck – CH2M Hill, Inc.

Attachment A

Fourth Quarter 2009 Confirmed Analytical Results
and
Radium-226 Analytical Results

Honeywell International, Inc.
Metropolis, Illinois

RCRA Part B Permit Groundwater
Fourth Quarter 2009 Confirmed Results

Well ID	Sample Date	Parameter	Units	Replicate 1	Replicate 2	Replicate 3	Replicate 4
G105	12/15/2009	Gross Alpha	pCi/L	4.5	< 1.8	2.8	5.1
G105	12/15/2009	Gross Alpha (counting error)	pCi/L	2.3	< 1.5	1.9	2.2
G105	11/17/2009	Radium 226	pCi/L	0.41			
G105	11/17/2009	Radium 226 (counting error)	pCi/L	0.19			

Attachment B

Fourth Quarter 2009 Confirmed Statistical Review

Gross-alpha
4thQtr09 Confirmed Statistical Review

Gross-alpha Background Concentrations (pCi/L)	G-101				R-110			
	3Q87	4Q87	1Q88	2Q88	2Q89	3Q89	4Q89	1Q90
	1.80	1.00	1.00	1.10	1.00	3.00	1.50	1.00
	1.10	1.00	1.00	1.50	1.00	3.50	1.00	1.40
	2.40	1.00	1.80	1.00	1.00	3.70	1.10	2.70
Background Quarterly Average	1.83	1.00	1.35	1.23	1.00	3.30	1.15	1.53

Gross-alpha 4thQtr09re Concentrations (pCi/L)	G-105
	4.50
	1.80
	2.80
Quarterly Average	3.5500

Background Statistics	
Number of Background Wells	2
Background Samples per Well	4
Background Average	1.546875
Background Standard Deviation	0.760573
Confidence Level	t _{0.01}
Degrees of Freedom	7

Average Replicate t-test	t*	2.4831
	t _c	3.0000
	Significant Increase	No

Notes:
Background average is the mean of all background quarterly averages.
Background standard deviation is the standard deviation of all background quarterly averages.