



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: WRB Refining LP - Wood River Refinery Site ID #: 1191150002
Facility Address: 900 S. Central Ave; Roxana, IL 62084 Fed ID #: ILD 080 012 305

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.

<input type="checkbox"/>	LPC-160 Forms		
<input type="checkbox"/>	<u>Groundwater</u>	<input type="checkbox"/>	<u>Leachate</u>
<input type="checkbox"/>	Quarterly – Indicate one: 1 2 3 4	<input type="checkbox"/>	Quarterly – Indicate one: 1 2 3 4
<input type="checkbox"/>	Semi-Annual	<input type="checkbox"/>	Semi-Annual
<input type="checkbox"/>	Annual	<input type="checkbox"/>	Annual
<input type="checkbox"/>	Biennial	<input type="checkbox"/>	Biennial

<input type="checkbox"/>	Groundwater Data (without LPC-160 Forms)
<input type="checkbox"/>	Quarterly – Indicate one: 1 2 3 4
<input type="checkbox"/>	Annual <input type="checkbox"/> Semi-Annual <input type="checkbox"/> 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) _____

**LOG OF BORING
GP-15 (P-60-S)**

Starting Date: 3/14/11
 Completion Date: 3/14/11
 Casing Elevation: 446.98
 Ground Elevation: 444.33

Quadrangle Sec: N/A
 T: N/A
 R: N/A
 UTM (or State Plane) Coord
 N: (X):793530.41
 E: (Y):2322299.00

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
								DESCRIPTION	NOTES
							FILL	Gravel (FILL)	Air knife completed to 10' bgs to clear utilities, lithology information gained via grab samples from hand augers periodically collected.
				0.0			CL	Moist, dark brownish gray, Silty CLAY (CL)	
				0.0					
				34.5					
				18.1					
5				7.4			SP	Moist, brown, poorly graded SAND (SP), with trace silt Becomes greenish gray	
				13.3					
				25.3					
				9.6					
10				24.9					
	24	14		21.5			SM	Medium dense, moist, brown, Silty SAND (SM)	Sampled GP-15-10-12 at 1400 for VOC and TPH
				4.5				Medium dense, moist, gray, fine grained, poorly graded, SAND (SP) 5" black banding	
15				5.7					
	48	38		10.2					Hydrocarbon odor
				678			SP		
20				395				Becomes dense	Sampled GP-15-19-20 at 1430 for VOC and TPH
	48	34		428				Becomes loose	

Completion Depth: 40.0 Ft bgs
 Project No.: 21562593
 Project Name: WRB Refining LP - Wood River Refinery
 Drilling Contractor: Roberts Environmental Drilling Inc.
 Driller Name: B. Schilling
 Drilling Method: Direct Push
 Drill Rig Type: VTR-9700
 Logged by: N. Satam
 County: Madison
 Site ID No.: 1191150002
 Federal ID No.: ILD 080 012 305

Water Depth: NE ft., After AD hrs.
 Water Depth: _____ ft., After _____ hrs.
 Water level at time of drilling
 Water level after drilling
 ATD - At time of drilling
 NE - None Encountered
 NA - Not Applicable

Geoprobe
 Air Knife/Hand Auger Sampler
 Air Rotary
 Sonic
 Splitspoon Sampler
 Hollow Stem Auger-
 Soil samples not collected



USC based on field visual observations

URS (ENVI/IRON) LOG (EPA FORMAT) 2:1562593.00014 (GP-15-S).GPJ URSSTLEV.GDT 5/19/11

**LOG OF BORING
GP-15 (P-60-S)**

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	LOG OF BORING GP-15 (P-60-S)	
								Starting Date: 3/14/11 Completion Date: 3/14/11 Casing Elevation: 446.98 Ground Elevation: 444.33	Quadrangle Sec: N/A T: N/A R: N/A UTM (or State Plane) Coord N: (X):793530.41 E: (Y):2322299.00
								DESCRIPTION	NOTES
30	48	32		620			SP	Same: Loose, moist, gray, fine grained, poorly graded, SAND (SP)	Sampled GP-15-27-28 and duplicate at 1500 for VOC and TPH
				844					
	48	32		810					
				758					
	35	48	32		915				
910									
40	48	34		945					
				140					
40	Bottom of boring at 40' bgs							Installed 4-inch diameter well P-60-S on 4/20/11 at this location with a 15-ft screen from 33.81 to 48.81 ft bgs.	
45									

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URS
 USC based on field visual observations



Illinois Environmental Protection Agency

Well Completion Report

Site Number: 1191150002County: MadisonSite Name: WRB Refining LP - Wood River RefineryWell #: P-60-S

State

Plane Coordinate: X 793530.41 Y 232299.02 (or) Latitude: ' " Longitude: ' "Borehole #: GP-15Surveyed by: Juneau Engineering & Surveying - Phil Huskey, PLSIL Registration #: 35-2659Drilling Contractor: Roberts Environmental Drilling, Inc.Driller: Brian SchillingConsulting Firm: URS CorporationGeologist: Mike MillerDrilling Method: Hollow Stem AugerDrilling Fluid (Type): N/ALogged By: Neeta SatamDate Started: 4/20/11 Date Finished: 4/20/11

Report Form

Completed By: Wendy PenningtonDate: 5/4/11

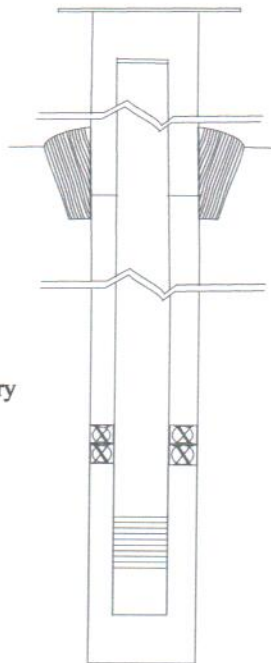
ANNULAR SPACE DETAILS

Type of Surface Seal: ConcreteType of Annular Sealant: Cement-Bentonite GroutInstallation Method: TremieSetting Time: 1515Type of Bentonite Seal - - Granular, Pellet, Slurry
(Choose One)Installation Method: PlacedSetting Time: 1355Type of Sand Pack: ANSI/NSF SandGrain Size: #10 (Sieve Size)Installation Method: PlacedType of Backfill Material: Native & Placed
(if applicable)Installation Method: Cave-in & Placed

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

Elevations
(MSL)*Depths
(BGS)

(.01 ft.)

447.333.00 (ags)

Top of Protective Casing

446.982.65 (ags)

Top of Riser Pipe

444.330

Ground Surface

443.331.00

Top of Annular Sealant

403.9340.40Static Water Level
(After Completion)415.3329.00

Top of Seal

412.3332.00

Top of Sand Pack

410.5233.81

Top of Screen

395.5248.81

Bottom of Screen

395.0549.28

Bottom of Well

394.3350.00

Bottom of Borehole

* Referenced to a National Geodetic Datum

CASING MEASUREMENTS

Diameter of Borehole (inches)	13
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	3.00
Riser Pipe Length (feet)	36.46
Bottom of Screen to End Cap (feet)	0.47
Screen Length (1" slot to last slot) (feet)	15
Total Length of Casing (feet)	51.93
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

Well Completion Form (revised 02/06/02)

NOTE: This monitoring well not yet developed due to presence of free product.