

ENCORE PROJECT SUMMARY FORM

Revision No. 3 Revision Date: 5/30/08
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GENERAL INFORMATION

Site Name: Wilmington Delaware Assembly Plant
Site No.: 091
Site Address: Boxwood Road
P.O. Box 151
Wilmington, Delaware 19899

Site Type:
☐ Superfund
☐ Inactive/Sold
☒ Operating Plant
☐ Closed Plant
☐ Other

Site Program:
☐ Federal
☐ State
☐ Voluntary
☐ Transaction Agreement
☒ Other Letter of Agreement with DNREC

Regulatory Oversight:
☒ Yes
☐ No

GM Program Manager:

Name: Fred Rindhage
Phone No.: (248) 753-5790
E-mail: fred.w.rindhage@gm.com

GM Project Manager:

Name: Kim Tucker-Billingslea
Phone No.: (248) 573-5800
E-mail: kim.tucker-billingslea@gm.com

**Other GM Personnel
Working on Project:**

Name: Jeff Holmes
Phone No.: (302) 428-7421
E-mail: jeff.holmes@gm.com

Name: _____
Phone No.: _____
E-mail: _____

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GENERAL INFORMATION (CONTINUED)***Consultant (If Any):***

Firm Name:	Conestoga-Rovers & Associates
Address:	261 Martindale Road, Unit 3
	St. Catharines, ON L2W 1A2
Contact Name:	Gregory A. Carli, P. E.
Phone No.:	(905) 682-0510
	(905) 682-8818 (fax)
Firm Name:	ENVIRON Corporation
Address:	214 Carnegie Center
	Princeton, NJ
Contact Name:	Steve Song
Phone No.:	609-243-9822

Contractor (If Any):

Firm Name:	
Address:	
Contact Name:	
Phone No.:	
Firm Name:	
Address:	
Contact Name:	
Phone No.:	

Agency Contact:

Agency Name:	DNREC
Address:	391 Lukens Drive
	New Castle, Delaware 19720-2774
Contact Name:	Rick Galloway
Phone No.:	(302) 395-2614
Agency Name:	
Address:	
Contact Name:	
Phone No.:	

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GENERAL INFORMATION (CONTINUED)

Consultant ENCORE Contact:

Name:	<u>Greg Carli</u>
Phone No.:	<u>(905) 682-0510</u>
E-mail:	<u>gcarli@CRAworld.com</u>

END OF GENERAL INFORMATION

ENCORE PROJECT SUMMARY FORMRevision No. 3
Revision Date: 5/30/08**SITE INFORMATION*****Manufacturing/Operating History:***

The GM Wilmington Assembly Plant comprises approximately 140 acres. Construction of the plant began in 1946. The site has been operated as a GM assembly plant since construction, having changed product lines on occasion.

Bulk product storage areas occupy approximately 1.5 acres near the center of the plant and are divided into Operational Units 1 and 2 (OU-1 and OU-2). The OU-1 Area includes the pump house and the Tank L through Tank O aboveground storage tank (AST) containment area. The OU-2 area includes the Large AST Containment/Truck Unloading Rack and surrounding areas.

Current Owner/Operator:

Company Name: General Motors Corporation
Address: 801 Boxwood Road, Wilmington, Delaware 19804
Contact Name: Jeff Holmes Phone No.: (302) 428-7421

ENCORE Contractual Responsibilities: (if not owned by GM/ENCORE)

n/a

Property Description: (See attached Site Location Map)

Size: 140 acres Zoning: Industrial Zone

Surrounding Landuse/Zoning:

North: Wetlands
South: Residential
East: Residential
West: Mixed Residential/Commercial

END OF SITE INFORMATION

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REGIONAL INFORMATION

Topographic Description: (See attached Site Location Map)

Plant and surrounding area have little topographic relief. A site location map based on USGS Wilmington South Quadrangle is shown on Figure 1.1, Site Location Map (attached).

Geologic Description:

Overburden:

General stratigraphy at Center Portion of Property:

0 to 5 ft bgs: FILL, generally silt and clay, occasional gravel surface
5 to 16 ft bgs: General intermixed clay and silt, some sand layers
16 to 40 ft bgs: Sand encountered in few borings to this deeper depth; not certain if continuous.

Natural soils considered to be of the Cretaceous Potomac Formation, which is principally variegated silt and/or clay with interbedded quartzitic sands. The Potomac Formation consists of detritic fluvial deposits which rest unconformably upon Precambrian-Age basement rock, which is considered to be the Wilmington Complex gneiss in the vicinity of the Site.

Bedrock:
(If Appropriate)

No borings to date have encountered bedrock. Geological literature suggests that bedrock could be as shallow as 50 feet bgs.

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Hydrogeologic Description:

Overburden:

Perched water encountered at several locations in surficial fill.

Static water levels in overburden monitoring wells historically show water table in the range of 11 to 13 ft bgs.

Bedrock:
(If Appropriate)

Not known.

Groundwater Usage:Site Usage:
(If Any)

No on-site supply wells.

Regional Usage:
(If Any)

Local, off-site wells may be in use. Well survey not performed.

Hydrologic Description:

The "Water Resource Protection Areas for City of Newark, City of Wilmington, New Castle County (Revised May 2001), Map 1 of 3" was examined to confirm that the GM Wilmington Plant is not within a designated Water Resource Protection Area (WRPA). Regionally, both deeper portions of the Potomac formation and underlying bedrock are used as water supplies.

END OF REGIONAL INFORMATION

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OVERALL PROJECT TEAM ORGANIZATION/RESPONSIBILITIES**AREA/UNIT OF CONCERN: OU-2**

<i>Area/Unit of Concern Project Description</i>	<i>Team Players</i>		
	<i>Name</i>	<i>Company</i>	<i>Role</i>
OU-2	Greg Carli	CRA	Implement groundwater investigations and reporting to DNREC
	Steve Song	ENVIRON	

(COPY AND COMPLETE ABOVE FOR EACH AREA/UNIT OF CONCERN)

END OF OVERALL PROJECT TEAM ORGANIZATION/RESPONSIBILITIES

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AREA/UNIT OF CONCERN (COMPLETE FOR EACH SEPARATE AREA OR UNIT AT THE SITE)**NAME OF AREA/UNIT OF CONCERN: OU-2 GROUNDWATER and SOIL OUTSIDE OU-1 AREA****Area/Unit Status:**

☐	Inactive	_____
☐	Due Diligence	_____
☒	Investigation	Groundwater
☐	Remedial Design	_____
☐	Remedial Action	_____
☐	O&M	_____
☐	Other	_____

Area/Unit Program:

☐	Federal	☐	State
☐	Voluntary	☐	Transaction Agreement
☒	Other	Letter of Agreement with DNREC	

Specific Media of Concern:

☐	Soil (Human or Ecologic)	_____
☐	Surface Water (Human or Ecologic)	_____
☐	Sediments (Human or Ecologic)	_____
☒	Groundwater (Human or Ecologic)	_____
☐	Air (Human or Ecologic)	_____

Specific Chemicals of Concern:

☒	VOCs	Mostly BTEX compounds
☒	SVOCs	TPH-related
☒	Pest/PCBs	Aroclor 1260
☐	Inorganics	_____
☐	Other	_____

Project Summary:
(Attach Figure)

The "Groundwater Remedial Investigation and Feasibility Study Report" was submitted to DNREC in December 2007. The team currently addressing comments from DNREC, Risk Assessment concluded that groundwater impacts at the OU-2 downgradient boundary have been delineated to drinking water criteria. Despite the elevated concentrations of BTEX and other gasoline-related compounds in the northeastern portion of the OU-2 Area, the results of the risk assessment indicate that the concentrations of constituents in groundwater within the OU-2 Area do not pose a significant risk to human health. As a result, the remedy proposed for the site consists of four rounds of semi-annual groundwater monitoring to confirm that groundwater impacts remain within the OU-2 boundary.

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AREA/UNIT OF CONCERN (CONTINUED)

*High Priority Issues/
Action Items:*

- Address DNREC comments on FS report
 - Indicate two years on groundwater monitoring
-

ENCORE PROJECT SUMMARY FORMRevision No. 3
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Long-Term Summary: (to Project Completion)*Goals - Reasonable:*

Obtain certificate of Completion of Remedy from DNREC.

*- Stretch:**Strategy to Achieve Long-Term Goals:*

Address DNREC comments on FS for approval.

Collect additional rounds of groundwater data to support understanding of concentrations over time.

Schedule:

Address DNREC comments by June 2008

Additional groundwater monitoring – to be determine.

ENCORE PROJECT SUMMARY FORMRevision No. 3
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Short-Term Summary: (Next Calendar Year)*Goals - Reasonable:*

Complete vapor intrusion/risk evaluation.

Conduct groundwater monitoring program.

*- Stretch:**Strategy to Achieve Short-Term Goals:*

Two years of semi-annual groundwater monitoring to confirm extent of groundwater impacts.

Schedule (attach Figure, if appropriate):

Additional groundwater monitoring – to be determined.

Summary of Work Activities Planned for Next Year:

Additional groundwater monitoring.

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AREA/UNIT OF CONCERN (CONTINUED)

Financial Assurance

1. Is financial assurance required for this project? Yes ☐ No ☒
If No, proceed to next section.
2. Confirm that the detailed cost estimate associated with the financial assurance requirements was reviewed during this past year to determine whether revisions (other than adjustments for inflation made by WFG Finance) are appropriate.
Yes ☐ No ☐
If revisions are appropriate, please refer to "Preparation of Cost Estimates for REALM and ENCORE Projects" Section in the REALM APM and ENCORE APM.
3. Provide the date of the most current agency approved cost estimate associated with financial assurance and the title and date of the document that contains it.
Cost estimate amount:
Date of cost estimate:
Title of document:
Date of document:
4. Provide the title and date of the agency approval document for the above referenced cost estimate.
Title of document:
Date of document:

ENCORE PROJECT SUMMARY FORMRevision No. 3
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Potential Concerns/Factors Influencing Project Completion/Cost

Additional groundwater monitoring could indicate a need for evaluation of active remedial alternatives.

Other (Needs/Wants/Resources and Schedules, etc.)

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AREA/UNIT OF CONCERN (CONTINUED)***Work Activities:***

Planned for Upcoming Year

ActivityResponses to
Comments***Time Period***

2008

Bid Date

n/a

Groundwater
monitoringLikely start in
2008

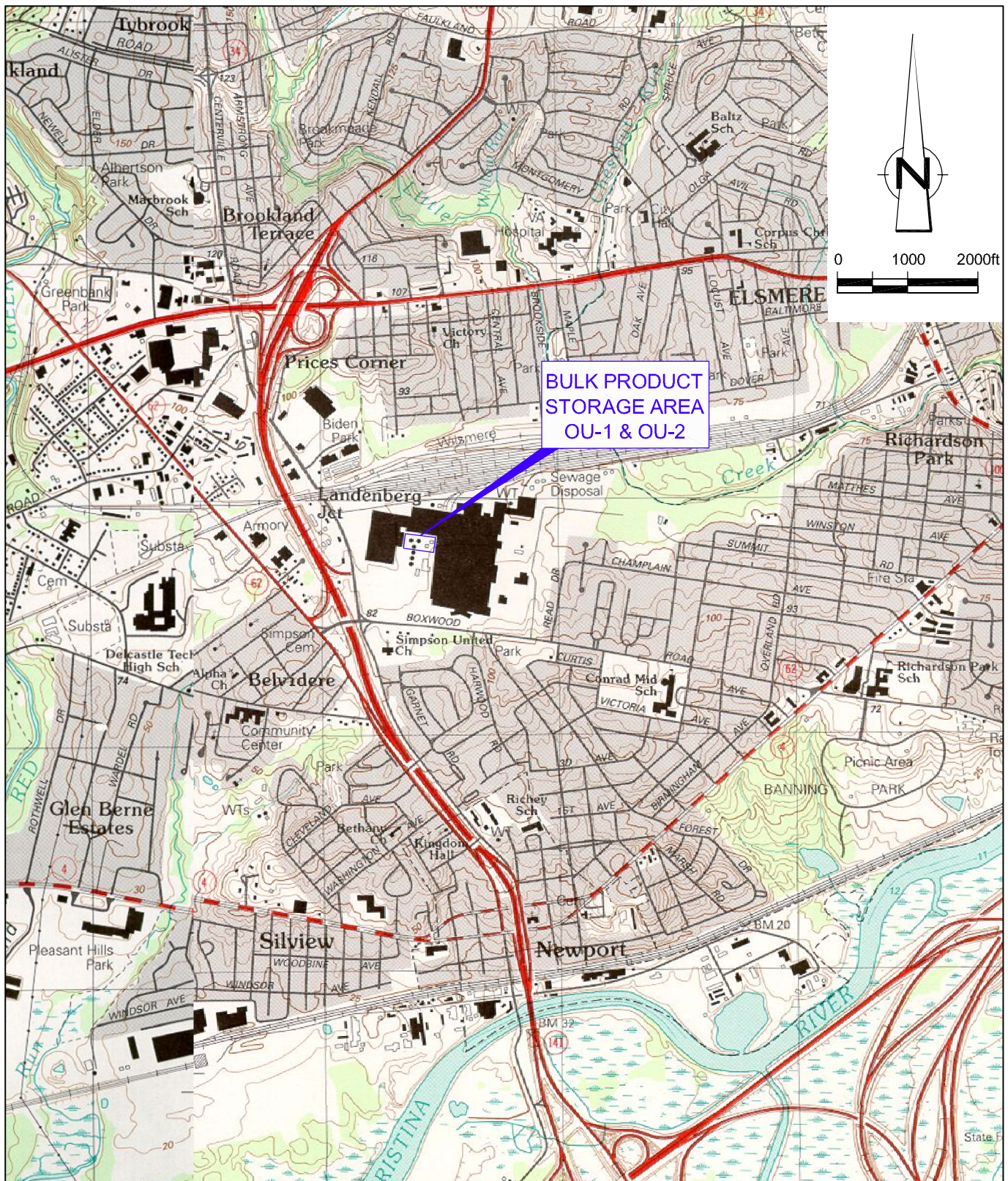
n/a

n/a

Activities Where:Synergies with Other Sites
may Exist for Upcoming Year***Activity***

None

Time Period***Other Site(s)*****END OF AREA/UNIT OF CONCERN**



REFERENCE:

UNITED STATES GEOLOGIC SURVEY
WILMINGTON SOUTH QUADRANGLE, DEL
TOPOGRAPHIC, 7.5 MINUTES SERIES 1997
SCALE: 1:24,000



figure 1.1
SITE LOCATION MAP
GENERAL MOTORS ASSEMBLY PLANT
Wilmington, Delaware