Division of Environmental Remediation
Certificate of Completion Package Routing Slip

To: **Dale Desnoyers**

The attached is submitted for your signature by:

David G. Pratt, P.E., Project Manager DP
Bartholomew H. Putzig, P.E., RHWRE BHP

It has been checked and approved by:

James Charles, Project Attorney

Name	Title	Initial	Date
Edward Belmore	Remedial Bureau Director	AJW for EBJ	12/28/06
Deborah Christian	DEE		
Alison Crocker	Acting General Counsel		

MEMORANDUM

TO: Deborah Christian, DEE
FROM: Edward Belmore, Director, Remedial Bureau

THRU: James Charles, Project Attorney
BY: David Pratt, Project Manager

SUBJECT: BCP Certificate of Completion - Garlock Sealing Technologies Klozures Site
Town and Village of Palmyra, Wayne County, Site No. C859001

DATE: December 21, 2006

Attached for your review and approval for signature is the Certificate of Completion for the above referenced Brownfield Cleanup Program site. Below is a summary of the project that demonstrates that the requirements of the BCP for issuance of a Certificate of Completion have been met for this project.

Applicant Name: Garlock Sealing Technologies LLC

Site Address: 1666 Division Street in the Town and Village of Palmyra, County of Wayne

Site Description: The Garlock Klozures Site consists of the western-most 7 acres of 142 acres owned by Garlock. The Garlock-Klozures site is beyond the historic limits of major facility operations, and was used primarily as parking space. However, its close proximity to the rest of the facility and associated potential contaminant sources raised the possibility that contamination may exist that might encumber redevelopment of the Klozures site. Garlock manufactures gaskets, oil seals, compression packing, hydraulic components, mechanical seals and expansion joints. Garlock has been the owner and operator of the Site and had continuous industrial operations at the Site for about 100 years.

Remediation of the Site: The Remedial Investigation report concluded that no action was necessary to meet Track 2 industrial future use for the site.

Final Remedial Investigation Report: The Final Remedial Investigation (RI) Report has been reviewed by NYSDEC and NYSDOH technical staff. Technical staff concur with the no action remedy with institutional controls (industrial future use, groundwater restrictions, and post-construction soil vapor intrusion evaluation). Since there is no Final Engineering Report (FER) for this site, the FER checklist has been modified for a RI and attached.

Certifications of Report Contents: The RI includes all applicable certifications pursuant to Environmental Conservation Law 27-1419.

Recommendation: We have reviewed the documentation for the completion of this project and recommend that the Final Remedial Investigation Report be approved and the attached Certificate of Completion be issued.

12/21/06
Date

David G. Pratt, P.E. - Project Manager

12-21-2006
Date

Bartholomew H. Putzig, P.E. - RHWRE

Attachment: Certificate of Completion
Final Remedial Investigation Report approval checklist

Checklist for Remedial Investigation Report Approval
(Revised from FER Checklist)

Site Name: Garlock Sealing Technologies Klozures Site
Municipality: Town and Village of Palmyra
County: Wayne County
Site No.: C859001

This Remedial Investigation (RI) Report recommended No Action to meet Track 2 Industrial Cleanup Goals, with groundwater restrictions and industrial future use.

Technical Content of the Report:

The RI must include the following:

X Yes Clear identification of the boundaries of the site as described in the brownfield site cleanup agreement (BSCA).

X Yes ☐ N/A Clear identification of the boundaries of the real property subject to the environmental easement or other institutional controls, if different than the site boundaries described above.

X Yes A metes and bounds description and survey map must be included in the RI which corresponds to the above site boundaries.

☐ Yes ***X N/A*** A description of the remedial activities completed at the site, including previous CCRs and the project which is the subject of this RI, completed in accordance with the remedial work plan(s) and/or decision document(s) for the site.

X Yes A complete description of any institutional and/or engineering controls employed at the site, including the mechanisms that will be used to continually implement, maintain, monitor, and enforce such controls.

☐ Yes ***X N/A*** Identification of the cleanup levels applied to the remedial actions, for each media of concern and area of concern at the site;

☐ Yes ***X N/A*** A summary of the implementation of the remedial actions, which includes as appropriate:

- ☐ A description of any problems encountered during construction and their resolution;
- ☐ A description of changes to the design documents and why the changes were made; including documentation of the approval of the change by the Department.
- ☐ Quantities and concentration of contaminants removed or treated;
- ☐ A listing of the waste streams, quantity of materials disposed and where they were disposed.

☐ Yes ***X N/A*** The RI substantially follows the guidance provided in DER10, Section 5.8 and specifically includes the following, as appropriate to the remedy:

☐ Yes ☐ No ***X N/A*** A detailed description of site restoration activities pursuant to DER10

Section 5.4(d).

☐ Yes ☐ No ***X N/A*** A detailed description of the source and quality of imported fill pursuant to DER 10 Section 5.4(d).

☐ Yes ☐ No ***X N/A*** For active groundwater remedial actions consisting of groundwater extraction or control: The final engineering report should also include figures representative of flow conditions immediately preceding initiation of the remedial action and flow conditions representative of pumping conditions required by the remedy.

☐ Yes ☐ No ***X N/A*** For SSF State funded and ERP projects, where State funding is provided: A detailed summary of actual costs including bid tabulations and change orders.

Tables and Figures: Included ☐ Yes ☐ No ***X N/A***
As set forth in DER10 Section 3.14 (remedial investigation report) tables and figures presenting all pre- and post-remedial data keyed appropriately are included to as appropriate to document the satisfactory completion of the remedial action. The figure/tables should clearly indicate the volume of contaminated media which was remediated by area where appropriate.

As-Built Drawings: Included ☐ Yes ☐ No ***X N/A***
"As-built" drawings, with a NYS P.E. stamp and signature on each drawing, were provided, including relevant drawings from previous CCRs. The as built drawings must identify:

☐ Yes ***X N/A*** The boundaries of the real property subject to the environmental easement; other institutional controls or the oversight agreement must be incorporated on all figures.

☐ Yes ***X N/A*** The location and extent of all engineering controls including, without limitation, slurry walls, treatment units, piping and instrumentation wiring or other remedial structures which will remain in place after completion of the remedial action.

☐ Yes ☐ No ***X N/A*** Permanent survey markers for horizontal and vertical control for site management, where required.

☐ Yes ☐ No ***X N/A*** For projects with soil covers and/or caps: the areal and vertical (depth) extent of the covered/capped area, including identification of buildings and/or paving which are considered part of the site cover/cap as well as a description of the material and depths of the demarcation layer.

☐ Yes ☐ No ***X N/A*** For projects with soil removals: the limits of the excavation, the depth of the excavation and location of all documentation samples.

☐ Yes ☐ No ***X N/A*** For projects with underground storage tank removals: the size and contents of the tank(s) identified and addressed by the remedy, the surveyed location of the tanks removed or abandoned in place and the extent of any soil removal as per above.

Data Submittal: Included ☐ Yes ☐ No ***X N/A***
The following information is to be submitted with the final engineering report, in an electronic format acceptable to the DER. This information is not to be included as an attachment or appendix to the

report, but as a separate data submittal in an electronic format approved by the DER:

☐ Yes ☐ No ***X N/A*** Electronic copies of all fully executed manifests documenting off-site transport and disposal of all material deemed hazardous or solid wastes.
☐ Yes ☐ No ***X N/A*** All analytical data for pre and post-excavation samples, soil backfill analyses, treated water effluent analyses, and waste disposal characterizations, including all laboratory data sheets and the required laboratory data deliverables pursuant to DER10 Sections 2.2, 2.3 and appendix 2B.
☐ Yes ☐ No ***X N/A*** Photographs

Site Management Plan (SMP):
☐ N/A If none is required for the remedy which is the subject of this RI check here
X Yes The approved SMP is included in the RI.
X Yes The SMP must include at a minimum an Institutional and Engineering Control Plan as well as provision for the periodic certification of the institutional control and engineering controls (IC/EC certification) and may include, as required by the remedy, a Site Monitoring Plan and Operation & Maintenance Plan. The required certification regarding the SMP is included in the Certification Section below.

Environmental Easement
☐ N/A If none is required for the remedy which is the subject of this RI check here
X Yes A filed copy of the environmental easement is included in the RI or has been provided to the Department.
X Yes A Title Insurance Commitment has been issued in favor of the Department to the satisfaction of the DEE attorney.
X Yes A certification that the easement has been filed and the municipalities having jurisdiction over the easement have been notified is required. See Certification Section below for the language of this certification.

Financial Assurance
X N/A If none is required for the remedy which is the subject of this RI check here
☐ Yes ☐ No ☐ N/A Identify the financial assurance mechanisms required for the site and include the copy of the executed mechanism.
☐ Yes A certification that the Financial Assurance has been submitted by the applicant must be included in the RI. See Certification Section below for the language of this certification.

Citizen Participation
X Yes A 45 day public comment period was completed December 23, 2006 for the RI with no action proposed. NOTE: A notice to the mailing list/Fact Sheet is also to be issued within 10 days of when the Certificate of Completion is issued by the Department for a site which will utilize IC/ECs.

FER Professional Engineer Certification and Stamp: Included ☐ Yes ☐ No ***X N/A***

X N/A The FER will be prepared, stamped and the following certification signed by an individual licensed or otherwise authorized in accordance with article145 of the education law to practice the profession of engineering:

- "I _____certify that I am currently a registered professional engineer, and I certify that the Remedial Work Plan (or Remedial Design) was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Work Plan (or Remedial Design)""

FER Certifications for the COC: Pursuant to Environmental Conservation Law 27-1419 for the BCP and 6 NYCRR 375 for the ERP and SSF, the *Final Engineering Report* must include the certifications listed below, which are to be signed by the PE certifying the FER or the site owner. These certifications must appear exactly as they are set forth below:

- "The data submitted to the Department demonstrates that the remediation requirements set forth in the remedial work plan and any other relevant provisions of ECL 27-1419 have been or will be achieved in accordance with the time frames, if any, established in the work plan."
  Included ☐ Yes ☐ No ***X N/A***

- "Any use restrictions, institutional controls, engineering controls and/or any operation and maintenance requirements applicable to the site are contained in an environmental easement created and recorded pursuant to ECL 71-3605 and that any affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded."
  Included ***X Yes*** ☐ No ☐ N/A

- "A Site Management Plan has been submitted by the applicant for the continual and proper operation, maintenance, and monitoring of any engineering controls employed at the site including the proper maintenance of any remaining monitoring wells, and that such plan has been approved by the Department." Included ***X Yes*** ☐ No ☐ N/A

- "Any financial assurance mechanisms required by the Department pursuant to ECL 27-1419 have been executed." Included ☐ Yes ☐ No ***X N/A***

The review of the Remedial Investigation Report has been completed and found to satisfy all applicable requirements and guidance as detailed above. The Remedial Investigation Report is therefore recommended for approval.

Completed by: _____ Date: 12/21/06
David G. Pratt, P.E., Project Manager

Reviewed by: _____ Date: 12-21-2006
Bartholomew H. Putzig, P.E., RHWRE

Site Management Plan (SMP) Checklist
for BCP, ERP, SSF and VCP sites

Site Name: Garlock Klozures
Location: Palmyra (V), Wayne (C)
Site No.: C859001

Project Manager: David Pratt

The SMP for a site remedial program must include at a minimum an Institutional and Engineering Control Plan as well as provision for the periodic certification of the institutional control and engineering controls (IC/EC certification) and may include, as required by the remedy, a Site Monitoring Plan and Operation & Maintenance Plan. Each of these individual areas of reporting will need to meet the minimum requirements detailed below.

The SMP being reviewed addresses:

X The entire site

☐ An operable unit of the site identified as:_____

☐ An IRM for operable unit ___ identified as_____

☐ A groundwater restriction or short term engineering control for an otherwise unrestricted use site

The SMP period for this site, after an initial one year review, will be:

X Annually ☐ Every 2 years ☐ Every 3 years ☐ Every 5 years ☐ Other:_____

Institutional and Engineering Control Plan:

X Must include a complete description of all institutional and/or engineering controls employed at the site, including the mechanisms that will be used to continually implement, maintain, monitor, and enforce such controls both by the applicant, the applicant's successors and assigns, and by state or local government is presented.

X A copy of the environmental easement with proof of filing with the responsible municipal authority;

X Appropriate plans for implementation of the engineering and institutional controls, such as for handling soils removed from beneath a soil cover or cap during maintenance or redevelopment of the site. This would include development of media-specific implementation plans, such as plans for:

- ☐ Soil management which detail procedures for handling soil excavated from below a soil cover or cap during maintenance or redevelopment of the site (e.g., a soils management plan); or
- ☐ Treatment requirements to allow the use of contaminated groundwater, in lieu of groundwater use restrictions; or

- ☐ Installation/operation of sub-slab vapor depressurization systems, or other types of systems to address vapor intrusion;
- ☐ Engineering control inspection plans, for the remedy as implemented or to be installed as part of the site development, such as for a cap or cover system.

X Provision for the preparation and submittal of a site monitoring plan, to include the IC/EC certification as well as all other reporting of the IC/ECs, site monitoring and/or operation and maintenance of the remedy.

Institutional Control and Engineering Control (IC/EC) Certification: The applicant or site owner must make a periodic certification of the IC/EC to the Department. The requirements of this periodic IC/EC certification will be described in the SMP and the certification must be included in the site management report, which is prepared and submitted for the Department approved certification period. The IC/EC certification will:

X Clearly identify the periodic certification period.

X Include a complete description of all institutional and/or engineering controls employed at the site, including the mechanisms that will be used to continually implement, maintain, monitor, and enforce such controls both by the applicant, the applicant's successors and assigns, and by state or local government.

X Include an evaluation of the plans developed for implementation of the engineering and institutional controls, regarding the continued effectiveness of any institutional and/or engineering controls required by the decision document for a site.

X Allow for access by the Department- to the site to evaluate continued maintenance of such controls.

X Provide a certification prepared by a professional engineer or other qualified environmental professional, which must certify that the institutional controls and/or engineering controls employed at such site are :

- unchanged from the previous certification, unless otherwise approved by the Department, consistent with the SMP;
- in place and effective;
- performing as designed; and that nothing has occurred that would
  - impair the ability of the controls to protect the public health and environment; or
  - constitute a violation or failure to comply with any operation and maintenance plan for such controls.

N/A For BCP sites: For those sites determined to be non-significant threat sites, but where contaminants in groundwater contravene drinking water standards at the site border, in addition to the items noted above; the remedial party will also have to certify:

- ☐ On a yearly basis that no new information has come to the site owner's attention, including groundwater monitoring data from wells located at the site boundary, to indicate that the assumptions made in the qualitative exposure assessment of offsite contamination are no longer valid; and

□ Every five years, that the assumptions made in the qualitative exposure assessment remain valid.

Site Monitoring Plan: Includes, as appropriate for the site remedy, sampling and analysis plans for monitoring groundwater, soil vapor or another media as identified by the decision document for the site, designed to:

X If none is required for the remedy which is the subject of this SMP check here

□ Assess the remedy's compliance with groundwater standards.

□ Assess the remedy's compliance with the cleanup objectives of any other impacted media.

□ Evaluate site information periodically to confirm that the remedy continues to be effective for the protection of public health and the environment.

□ Prepare the necessary reports of the results of this monitoring for a period determined by the Department.

Operation & Maintenance Plan: Includes, as appropriate for the site remedy, a plan(s) which:

X If none is required for the remedy which is the subject of this SMP check here

□ Identify the operation and maintenance activities necessary for the continued operation of the components of the remedy, including provision for evaluation of the systems and recommendations to optimize performance.

□ Evaluating site information periodically to confirm that the remedy continues to be effective for the protection of public health and the environment.

□ Preparing the necessary reports of the results of this evaluation for a period determined by the Department.

Completed by: _____ Date: 12/21/06
Project Manager

Reviewed by: _____ Date: 12-21-2006
Section Chief/Regional HWR Engineer