RDMS DocID 106596

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES
DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION
RCRA Corrective Action
Environmental Indicator (EI) RCRIS code (CA750)
Migration of Contaminated Groundwater Under Control

RCRA FACILITIES CENTER
FACILITY SANMINA CORP
ID # NHD046312559
R-13
106596

Facility Name: Sanmina Corporation – SCI Facility (Former Hadco Facility)
Facility Address: 7 Manchester Road, Derry, NH
Facility EPA ID #: NHD 046312559
DES Site #: 198401037

1. Has all available relevant/significant information on known and reasonably suspected releases to the groundwater media, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been considered in this EI determination?

X	If yes - check here and continue with #2 below.
	If no - re-evaluate existing data

If data are not available, skip to #8 and enter"IN" (more information needed) status code.

2. Is groundwater known or reasonably suspected to be "contaminated"[1] above appropriately protective "levels" (i.e., applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action, anywhere at, or from, the facility?

X	If yes - continue after identifying key contaminants, citing appropriate "levels," and referencing supporting documentation.
	If no - skip to #8 and enter "YE" status code, after citing appropriate "levels," and referencing supporting documentation to demonstrate that groundwater is not "contaminated."

If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference

Groundwater exceeds Ambient Groundwater Quality Standards for VOCs (PCE, TCE, TCA, DCE and DCA).
See file # DES 198401037 for detail.

3. Has the migration of contaminated groundwater stabilized (such that contaminated groundwater is expected to remain within "existing area of contaminated groundwater"[2] as defined by the monitoring locations designated at the time of this determination)?

X	If yes - continue, after presenting or referencing the physical evidence (e.g., groundwater sampling/measurement/migration barrier data) and rationale why contaminated groundwater is expected to remain within the (horizontal or vertical) dimensions of the "existing area of groundwater contamination"[2]).
	If no (contaminated groundwater is observed or expected to migrate beyond the designated locations defining the "existing area of groundwater contamination"[2]) - skip to #8 and enter "NO" status code, after providing an explanation.

Rationale and Reference(s):
See attached Groundwater Management Permit for details.
See file# DES 198401037 for detail.

4. Does "contaminated" groundwater discharge into surface water bodies?

	If yes - continue after identifying potentially affected surface water bodies.
X	If no – No - skip to #7 (and enter a "YE" status code in #8, if #7 = yes) after providing an explanation and/or referencing documentation supporting that undwater "contamination" does not enter surface water bodies. ,

Rationale and Reference(s):
Surface water impacts have not been observed.
See file# DES 198401037 for detail.

5. Is the discharge of "contaminated" groundwater into surface water likely to be "insignificant" (i.e., the maximum concentration[3] of each contaminant discharging into surface water is less than 10 times their appropriate groundwater "level," and there are no other conditions (e.g., the nature, and number, of discharging contaminants, or environmental setting), which significantly increase the potential for unacceptable impacts to surface water, sediments, or eco-systems at these concentrations)?

	If yes - skip to #7 (and enter "YE" status code in #8 if #7 = yes), after documenting: 1) the maximum known or reasonably suspected concentration[3] of key contaminants discharged above their groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) provide a statement of professional judgment/explanation (or reference documentation) supporting that the discharge of groundwater contaminants into the surface water is not anticipated to have unacceptable impacts to the receiving surface water, sediments, or eco-system.
	If no - (the discharge of "contaminated" groundwater into surface water is potentially significant) - continue after documenting: 1) the maximum known or reasonably suspected concentration[3] of each contaminant discharged above its groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) for any contaminants discharging into surface water in concentrations[3] greater than 100 times their appropriate groundwater "levels," the estimated total amount (mass in kg/yr) of each of these contaminants that are being discharged (loaded) into the surface water body (at the time of the determination), and identify if there is evidence that the amount of discharging contaminants is increasing.

Rationale and Reference(s):

6. Can the discharge of "contaminated" groundwater into surface water be shown to be "currently acceptable" (i.e., not cause impacts to surface water, sediments or eco-systems that should not be allowed to continue until a final remedy decision can be made and implemented[4])?

	If yes - continue after either: 1) identifying the Final Remedy decision incorporating these conditions, or other site-specific criteria (developed for the protection of the site's surface water, sediments, and eco-systems), and referencing supporting documentation demonstrating that these criteria are not exceeded by the discharging groundwater; OR 2) providing or referencing an interim-assessment,[5] appropriate to the potential for impact, that shows the discharge of groundwater contaminants into the surface water is (in the opinion of a trained specialists, including ecologist) adequately protective of receiving surface water, sediments, and eco-systems, until such time when a full assessment and final remedy decision can be made. Factors which should be considered in the interim-assessment (where appropriate to help identify the impact associated with discharging groundwater) include: surface water body size, flow, use/classification/habitats and contaminant loading limits, other sources of surface water/sediment contamination, surface water and sediment sample results and comparisons to available and appropriate surface water and sediment "levels," as well as any other factors, such as effects on ecological receptors (e.g., via bio-assays/benthic surveys or site-specific ecological Risk Assessments), that the overseeing regulatory agency would deem appropriate for making the EI determination.
	If no - (the discharge of "contaminated" groundwater can not be shown to be "currently acceptable") - skip to #8 and enter "NO" status code, after documenting the currently unacceptable impacts to the surface water body, sediments, and/or eco-systems.

7. Will groundwater monitoring / measurement data (and surface water/sediment/ecological data, as necessary) be collected in the future to verify that contaminated groundwater has remained within the horizontal (or vertical, as necessary) dimensions of the "existing area of contaminated groundwater?"

X	If yes - continue after providing or citing documentation for planned activities or future sampling/measurement events. Specifically identify the well/measurement locations which will be tested in the future to verify the expectation (identified in #3) that groundwater contamination will not be migrating horizontally (or vertically, as necessary) beyond the "existing area of groundwater contamination."
	If no - enter "NO" status code in #8.

Rationale and Reference(s):

See file# DES 198401037 and the Groundwater Management Permit for detail.

8. Check the appropriate RCRIS status codes for the Migration of Contaminated Groundwater Under Control EI (event code CA750), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (attach appropriate supporting documentation as well as a map of the facility).

X	YE - Yes, "Migration of Contaminated Groundwater Under Control" has been verified. Specifically, this determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater" This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.
	NO - Unacceptable migration of contaminated groundwater is observed or expected.

Completed by _____ Date 09/25/2007
(print) David Bowen
(title) Hydrogeologist

Supervisor _____ Date 09/25/2007
(print) Kenneth Kettenring
(title) Hydrogeologist

REV'D BY FRANK BATTAC
OK
9/26/07

, ACTING CHIEF
9/27/07

Locations where References may be found:
NHDES Office
29 Hazen Drive
Concord, NH

Contact telephone and e-mail numbers
(name) David C. Bowen, P.G.
(phone #) (603) 271-2800
(e-mail) dbowen@des.state.nh.us

State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES
6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095
(603) 271-3644 FAX (603) 271-2181

March 21, 2002

Mr. Ronald P. Blanchette
Sanmina Corporation
7 Manchester Road
Derry, New Hampshire 03038

SUBJECT: Derry – Sanmina Corporation, 7 Manchester Road, Groundwater Management Permit (DES #198401037)

Dear Mr. Blanchette:

Please find enclosed Groundwater Management Permit Number GWP-198401037-D-001, approved by the Department of Environmental Services (Department). This permit is issued for a period of 5 years to monitor the effects of past discharges of volatile organic compounds.

All annual monitoring summaries and all required sampling results must be submitted to the Groundwater Management Permits Coordinator at the address above. All correspondence shall contain a cover letter that clearly shows the Department identification number for the site (DES #198401037). **Please note that upon issuance of this permit, it is only necessary to submit monitoring results to the "Groundwater Management Permits Coordinator" and not to my attention.**

Also, please note that Condition #10 requires the permit holder to record notice of the permit, within 60 days of issuance, in the registry of deeds for the chain of title for the lot(s) within the Groundwater Management Zone. A copy of the recorded notice shall be submitted to the Department within 30 days of recordation.

Should you have any questions, please contact me at (603) 271-2800.

Sincerely,

David C. Bowen
Waste Management Division

Gwlib on 'Des1'/permits/manage/#199203033
Enclosure
cc: James Wieck, GZA
Derry Health Officer
File

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

The

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES

hereby issues

GROUNDWATER MANAGEMENT PERMIT NO. GWP-198401037-D-001

to the permittee

SANMINA CORPORATION

to monitor the past discharge of

Volatile Organic Compounds

at

7 MANCHESTER ROAD

in DERRY, N.H.

via the groundwater monitoring system comprised of

37 monitoring wells
2 surface water stations
&
2 system influent wells

as depicted on the Site Plan entitled

"Site Plan – Sheet No. 2"

dated November 2001 by GZA Environmental, Inc.

TO: SANMINA CORPORATION
7 MANCHESTER ROAD
DERRY, NEW HAMPSHIRE 03038

Date of Issuance: March 21, 2002
Date of Expiration: March 20, 2007

Pursuant to authority in N.H. RSA 485-C:6-a, the New Hampshire Department of Environmental Services (Department), hereby grants this permit to monitor past discharges to the groundwater at the above described location for five years subject to the following conditions:

(continued)

STANDARD MANAGEMENT PERMIT CONDITIONS

1. The permittee shall not violate Ambient Groundwater Quality Standards adopted by the Department (N.H. Admin. Rules Env-Wm 1403) in groundwater outside the boundaries of the Groundwater Management Zone, as shown on the referenced site plan.

2. The permittee shall not cause groundwater degradation that results in a violation of surface water quality standards (N.H. Admin. Rules Env-Ws 1700) in any surface water body.

3. The permittee shall allow any authorized staff of the Department, or its agent, to enter the property covered by this permit for the purpose of collecting information, examining records, collecting samples, or undertaking other action associated with this permit.

4. The permittee shall apply for the renewal of this permit 90 days prior to its expiration date.

5. This permit is transferable only upon written request to, and approval of, the Department. Compliance with the existing Permit shall be established prior to ownership transfer. Transfer requests shall include the name and address of the person to whom the permit transfer is requested, signature of the current and future permittee, and a summary of all monitoring results to date.

6. The Department reserves the right, under N.H. Admin. Rules Env-Wm 1403, to require additional hydrogeologic studies and/or remedial measures if the Department receives information indicating the need for such work.

7. The permittee shall maintain a water quality monitoring program and submit monitoring results to the Department's Groundwater Management Permits Coordinator no later than 45 days after sampling. Samples shall be taken from on-site monitoring wells and surface water sampling points as shown and labeled on the referenced site plan and other sampling points listed on the following table in accordance with the schedule outlined herein:

		Parameters					
Monitoring Location	**Sampling Frequency**	VOCs*, pH and groundwater elevation	Copper	Nickel	Fluoride	Nitrate	Sulfate
GZ-3	October each even year	X					
GZ-5A	October each year		X	X			
GZ-6	April & October Each year	X	X	X	X		X
GZ-102	April & October Each year	X		X	X		X

(continued)

		Parameters					
Monitoring Location	**Sampling Frequency**	VOCs*, pH and groundwater elevation	Copper	Nickel	Fluoride	Nitrate	Sulfate
GZ-103	October each year	X	X	X	X		X
GZ-104	October each year	X	X	X	X		X
GZ-105	April & October each year	X					
GZ-109U	April & October each year	X		X	X		X
GZ-109M	April & October each year	X		X	X		X
GZ-109L	April & October each year	X		X	X		X
GZ-110	October each year	X					
GZ-111	October each even year	X		X			
GZ-112U	April & October each year	X					
GZ-112L	April & October each year	X					
GZ-113	October each even year	X			X		
GZ-114U	October each even year	X			X		
GZ-114L	October each even year	X			X		
GZ-209U	April & October each year	X			X		
GZ-209L	April & October each year	X			X		
GZ-401	October each year	X					
GZ-402	October each year	X	X	X	X		X
GZ-403	October each year	X	X	X	X		X
GZ-404	October each year	X	X	X	X		X

(continued)

		Parameters					
Monitoring Location	**Sampling Frequency**	VOCs*, pH and groundwater elevation	Copper	Nickel	Fluoride	Nitrate	Sulfate
GZ-405	October each year	X					
GZ-406	October each year	X				X	
GZ-407	October each year	X					
GZ-408	April & October each year	X			X		
GZ-409	October each year	X					
GZ-412	October each year	X			X		X
GZ-414	April & October each year	X					
GZ-415L	October each year	X	X	X	X		
GZ-1000	April & October each year	X					
GZ-1001U	April & October each year	X					
GZ-1001L	April & October each year	X					
GZ-1002	April & October each year	X					
GZ-1005	April & October each year	X					
GZ-1006	April & October each year	X					
System influent PW-A	October each even year	X	X	X	X		X
CTI-4	April & October each year	X	X	X	X		X
Surface water SW-1 & OS-SW-1	April & October each year	X	X	X			

* Volatile Organic Compounds (VOCs by EPA Method 8260B)

(continued)

Samples shall be obtained using sampling procedures and protocol described in "Practical Guide for Ground-Water Sampling," USEPA current edition, and "RCRA Ground-Water Monitoring Enforcement Guidance," USEPA current edition. Samples shall be analyzed by a laboratory certified by the U.S. Environmental Protection Agency or the New Hampshire Department of Environmental Services. All overburden groundwater samples collected for metal analyses (copper and nickel) shall be analyzed for dissolved metals; and thus must be field filtered (with a 0.45-micron filter) and acidified after filtration in the field. Surface water samples and samples collected from bedrock or water supply wells shall be analyzed for total metals, and shall not be filtered.

Summaries of water quality shall be submitted annually to the Department's Waste Management Division, attention Groundwater Management Permits Coordinator, in the month of December, using a format acceptable to the Department. The Annual Report shall include a tabular summary of all monitoring results to date, an assessment of trends in the data, an evaluation of the performance of the remedial action plan, and any recommendations for modifications to the remedial action plan.

8. Issuance of this permit is based on the Groundwater Management Permit Application dated November 14, 2001 and the historical documents found in the Department file DES #198401037. The Department may require additional hydrogeologic studies and/or remedial measures if invalid or inaccurate data are submitted.

9. Within 30 days of the date of Department approval of this Groundwater Management Permit, the permittee shall provide notice of the permit by certified mail to all owners of lots of record within the Groundwater Management Zone. The permittee shall submit documentation of this notification to the Department within 60 days of permit issuance.

10. Within 60 days of the date of Department approval of this Groundwater Management Permit, the permit holder shall record notice of the permit in the registry of deeds in the chain of title for the **lot(s)** within the Groundwater Management Zone. **This recordation requires that the registry be provided with book and page numbers for the deed of each lot encumbered by this permit. Portions of State/Town/City roadways and associated right-of-way properties within the Groundwater Management Zone do not require recordation.** A copy of the recorded notice shall be submitted to the Department within 30 days of recordation.

11. Within 30 days of discovery of a violation of an ambient groundwater quality standard at or outside the Groundwater Management Zone boundary, the permittee shall notify the Department in writing. Within 60 days of discovery, the permittee shall submit a work scope for development of a revised remedial action plan, including a schedule of milestones, to the Department for approval. The Department shall approve the revised remedial action plan if compliance with Env-Wm 1403.08 has been demonstrated.

SPECIAL CONDITION FOR THIS PERMIT

12. Recorded property within the Groundwater Management Zone shall be Lot Number 272 of Tax Map 8 and Lot Numbers 14-2, 15-1, 15-2, 15-3, 15-5 and 15-9 of Tax Map 35 of the Town of Derry.

Carl W. Baxter, P.E.
Administrator, Hazardous Waste Remediation Bureau
Waste Management Division

Under RSA 21-0:14 and 21-0:9-V, any person aggrieved by any terms or conditions of this permit may appeal to the Waste Management Council in accordance with RSA 541-A and N.H. Admin. Rules, Env-WMC 200. Such appeal must be made to the Council within 30 days and must be addressed to the Chairman, Waste Management Council, 6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095.

GWP-198401037-D-001