

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
81 Higuera Street, Suite 200
San Luis Obispo, CA 93401-5427

WASTE DISCHARGE REQUIREMENTS ORDER NO. 97-112

For

GLASS-TEK INDUSTRIES, INC.
BURT DEVELOPMENT &
EDWARD S. BALCUNAS TRUST
16840 JOLEEN WAY
MORGAN HILL, SANTA CLARA COUNTY

1. The California Regional Water Quality Control Board, Central Coast Region (hereafter Board), finds:
2. GLASS-TEK INDUSTRIES, INC., a California corporation; BURT DEVELOPMENT, a partnership; and EDWARD S. BALCUNAS TRUST (collectively hereafter Dischargers) have filed an Application for reissuing Waste Discharge Requirements Order 94-81 due to proposed modification of the existing ground water treatment system and reconfiguration of treated ground water discharge.
3. Dischargers own or lease (Glass-Tek) properties at 16840 Joleen Way and APN No. 817-11-14, Morgan Hill (hereafter Site). The Site includes Balcunas Trust and Burt Development properties as shown on Attachments A and B, whereas Glass-Tek leases the west corner of the Burt Development property. Ground water beneath the Site has been degraded with trichloroethylene (TCE) as a result of releases to an on-site pond. Dischargers have defined the extent of soil and ground water degradation and conducted active soil and ground water remediation since 1994.
4. A ground water extraction and treatment system is in operation on the site as well as a soil vapor extraction system. Treated ground water has been discharged to the Dunne Avenue storm drain where it then flows to the Sutter Pond, a nearby stormwater basin west of the Site. The discharge is permitted under the Waste Discharge Requirements Order No. 94-81, issued in 1994 in accordance with Section 13263 of the California Water Code, for authorization to discharge treated ground water within the Llagas Ground Water Basin.
5. The existing ground water pump and treat system consists of several treatment units serving one or more extraction wells. A redundant unit is located downstream of the individual treatment units. Ground water extracted from individual extraction wells is treated with different units, combined, and passed through the final redundant unit.
6. An average of 32 gallons-per-minute (46,000 gallons-per-day) of extracted ground water has been treated and discharged to the Dunne Avenue storm drain where it flows to the Sutter Pond. The volume of water being discharged is less than half of the designed and permitted discharge volume of 100 gallons-per-minute or 144,000 gallons-per-day.
7. The proposed modifications to the system includes adding an extraction well and

Item No. 11
October 17, 2008 Meeting
Joleen Way Cleanup Site
Santa Clara County
Attachment 1

- rerouting all discharge to the Cory Lane Pond southwest of the Site. An average of 45 gallons-per-minute (65,000 gallons-per-day) of extracted ground water will be treated and discharged to two storm drain inlets located in the Balcunas Trust and Burt Development properties, where it flows to the Cory Lane Pond.
8. The maximum TCE concentration in the ground water monitoring wells was 470 microgram per liter ($\mu\text{g/L}$) during the June 1997 sampling event. Treated water has been tested monthly for chlorinated hydrocarbons before it is discharged to the storm drain. No break-through has occurred during the past year.
 9. A second redundant unit will be installed on the Burt Development property. Treated water from extraction wells north of San Pedro Avenue (see Attachment A) will pass through the existing redundant unit, whereas water from the wells south of San Pedro Avenue will pass through the second redundant unit, for final treatment before it is discharged to storm drain inlets.
 10. The Water Quality Control Plan, Central Coast Basin (Basin Plan), was revised and adopted by the Board on September 8, 1994. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State waters. The Basin Plan states that whenever the existing water quality is better than what is established by objectives, the existing quality shall be maintained.
 11. Potential beneficial uses of ground water that could be affected by the discharge include municipal and domestic supply, ground water recharge, agricultural supply, and industrial supply.
 12. Adoption of this Order is exempt from the provision of the California Environmental Quality Act (Public Resource Code, Section 21000, et seq.) in accordance with Sections 15307 and 15308, Chapter 3, Title 14, California Code of Regulations.
 13. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assure the conditions are met and mitigate any potential adverse changes in water quality due to the discharge.
 14. On September 8, 1997, the Board notified the Dischargers, interested agencies and persons of its intent to issue waste discharge requirements for the discharge, and has provided them with a copy of the proposed Order and an opportunity to submit written views and comments, and scheduled a public hearing.
- IT IS HEREBY ORDERED**, pursuant to authority in Section 13263 of the California Water Code, Glass-Tek Industries, Inc., Burt Development and Edward S. Balcunas Trust, their agents, successors, and assigns, may discharge treated ground water from the aforescribed facility providing compliance is maintained with the following:
- (Note: General permit conditions, definitions and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements," dated January, 1984, included as part of this Order. Applicable paragraphs are referenced in paragraph C.2. of this Order.
- Throughout the Order, requirements taken from the Basin Plan are marked by an "A" superscript and those not marked are based on professional judgment.)

A. DISCHARGE PROHIBITIONS

1. Discharge to outside the Cory Lane Pond is prohibited.
2. Discharge, overflow, bypass, leakage, seepage, and overspray of any wastes to adjacent properties are prohibited.
3. Bypass of the treatment facility or discharge of untreated or inadequately treated wastes is prohibited.
4. Addition of chemicals to the extracted water is prohibited unless it is essential to maintain compliance with this Order and to protect all beneficial uses. Written approval from the Executive Officer is required prior to any chemical addition to the extracted water.

B. DISCHARGE SPECIFICATIONS

1. Discharge to the storm drain inlets at the Site shall not exceed 100,000 gallon-per-day.
2. Discharge shall not cause ground water to contain concentrations of chemical constituents in excess of the limits as listed below.^A

<u>Constituent</u>	<u>mg/l</u>
Trichloroethylene	0.0005
Tetrachloroethylene	0.0005
1,1-Dichloroethylene	0.0005
1,1,1-Trichloroethane	0.0005
cis-1,2-Dichloroethylene	0.0005
trans-1,2-Dichloroethylene	0.0005
Chloroethane	0.0005
1,1-Dichloroethane	0.0005
1,2-Dichloroethane	0.0005
Vinyl chloride	0.0005

C. PROVISIONS

1. Dischargers shall maintain a copy of this Order at the site where it is always available to operating personnel and regulatory authorities.

2. Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements", dated January, 1984, except the following items:

A. 5, 8, 9, 10, 11, 14, 15, 16, 17, and 24.

C. 4, 9, and 16.

3. Dischargers shall comply with Monitoring and Reporting Programs No. 93-37 and 94-81 as ordered by the Executive Officer (Attachment B).
4. The treatment systems shall be operated according to an Operations and Maintenance Plan (OMP) to maintain effectiveness and efficiency. In addition, the OMP shall describe contingency measures in the event of system breakdown. The system shall also be maintained in a manner consistent with its engineering design.
5. If sampling of effluent indicates a violation of effluent limits, the Dischargers shall shut down the extraction and treatment system, notify Regional Board staff within 24 hours of having knowledge of violation, determine the cause of the problem and correct it. The system may be re-started as soon as the problem has been corrected. Regional Board staff shall be notified within 24 hours of the startup.
6. Pursuant to Title 23, Chapter 3, Sub-chapter 9, of the California Code of Regulations, the dischargers must submit a written report to the Executive Officer not later than June 30, 2002, which addresses:
 - a) Whether there will be changes in the continuity, character, location, or volume of wastewater over the subsequent five years; and
 - b) Whether, in the Dischargers' opinion, there is any portion of the Order that is

incorrect, obsolete, or otherwise in need of
revision.

ATTACHMENT

Attachment A, Joleen Way Site Map

Attachment B, Joleen Way Site Vicinity Map

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
81 Higuera Street, Suite 200
San Luis Obispo, California 93401-5427

MONITORING AND REPORTING PROGRAM NO. 97-112
(Revised December 5, 1997)

For

GLASS-TEK INDUSTRIES, INC.
BURT DEVELOPMENT
and
EDWARD S. BALCUNAS TRUST

16840 JOLEEN WAY, MORGAN HILL
SANTA CLARA COUNTY

TREATMENT SYSTEM MONITORING

The ground-water treatment system shall be monitored in accordance with the following requirements:

SAMPLING-POINT DEFINITIONS

The treatment system consists of several individual treatment units serving one or more extraction wells. The effluents of individual units are combined and pass through an additional treatment unit.

Unit influent: the point where ground water enters an individual treatment unit.

Unit midpoint: the point where system flow passes between canisters at an individual treatment unit.

Unit effluent: the point where system flow leaves an individual treatment unit and flows toward the combined treatment unit.

Combined discharge: the point where the combined flow of all individual treatment units leaves the combined treatment unit.

SAMPLING FREQUENCY

The volume of water pumped from each well, treated and discharged shall be measured.

Representative samples of the influent and midpoint of each individual treatment unit shall be collected and analyzed monthly. Sample results shall be reviewed by the Discharger within 14 days of the sampling date.

If an analyte is detected at a concentration exceeding the specified reporting concentration (see Sample Analysis, below) in a unit midpoint sample, the unit effluent shall be sampled within two days of receiving unit midpoint results and monthly thereafter until the unit's main canister is regenerated. Unit effluent sample results shall be reviewed by the Discharger within two days of the sampling date.

If an analyte is detected at a concentration exceeding the specified reporting concentration in a unit effluent sample, the combined discharge shall be sampled within two days of receiving unit effluent results and weekly thereafter until the unit's canister is regenerated and two consecutive samples show compliance with discharge

specifications. Combined discharge sample results shall be reviewed by the Discharger within two days of the sampling date.

The combined discharge shall be sampled at least quarterly. Sample results shall be reviewed by the Discharger within two days of the sampling date. If an analyte is detected at a concentration exceeding the discharge prohibitions listed in Waste Discharge Requirements Order No. 94-81, the discharge shall be terminated immediately, and the Regional Board notified by the next business day. Startup of the system will be under the direction of the Regional Board.

SAMPLE ANALYSIS

Samples shall be analyzed using a method from the most recent edition of *Test Methods for Evaluating Solid Waste*, SW-846, United States Environmental Protection Agency. The analyzing laboratory shall be certified by the California Department of Health Services for the method used. At a minimum, the following analytes shall be quantitated:

1,1,1-trichloroethane	chloroethane
1,1-dichloroethene	trichloroethene
cis-1,2-dichloroethene	trans-1,2-dichloroethene
1,1-dichloroethane	tetrachloroethene
1,2-dichloroethane	vinyl chloride

The minimum reporting concentration of the above-listed analytes shall not exceed 0.5 µg/L (micrograms per liter).

The pH of samples collected at the combined discharge shall be determined.

SOIL VAPOR EXTRACTION

Flow volume, concentrations of contaminants in the vapor, and an estimate of the mass of waste removed shall be calculated quarterly.

GROUND-WATER MONITORING

Ground-water monitoring activities shall be performed in accordance with protocols approved by the Executive Officer.

SAMPLING FREQUENCY

Representative samples of ground water shall be collected from wells according to the following schedule:

<u>Minimum Frequency of Analysis</u>	<u>Well</u>
Quarterly	MW-11, 12, 13, 16 MW-B6, B7, B8

Semi-annually (first and third quarters)

MW-2, 3, 6, 7, 9, 20
MW-B1, B3, B4, B5
09S03E27M008 (Molinaro)
09S03E27M007 (Tanimoto)
09S03E27L006 (Cheng)
09S03E28H001 (Windmill)

All new wells shall be sampled twice, about two weeks apart, and then placed on a quarterly schedule until data support less frequent sampling, as approved by the Executive Officer.

SAMPLE ANALYSIS

Same as those required for the treatment monitoring as specified above.

WATER-ELEVATION MEASUREMENT

Depth to water shall be measured in all wells at least once per quarter. Depth-to-water measurement and sample collection shall occur on the same day.

REPORTING

The reporting period is the calendar quarter. Monitoring reports shall be submitted by the 20th day of the month following the end of the quarter (January, April, July, and October). The reports shall include the following:

1. all data required by this monitoring program for the reporting period in tabular form. Tables presenting analytical data shall indicate the analytical method used;
2. copies of certified analytical reports for all analyses;
3. an operational summary discussing canister regeneration, shut-downs, and any non-routine operational changes made to the ground-water treatment and discharge system or vapor extraction system during the reporting period;
4. an estimate of waste recovered during the reporting period and cumulatively;
5. a diagram showing pumping wells, treatment points, and piping connections;
6. all previous data in tabular form to allow comparison of historic data;
7. an evaluation and interpretation of all available data;
8. a detailed discussion of the performance of the entire system, including any recommended modifications;
9. maps showing contaminant concentrations and calculated potentiometric surfaces for each water-bearing zone;
10. historic ground-water contaminant concentration and depth-to-water data; and,

11. the signature and stamp of a registered professional attesting, under penalty of perjury, that the report is true and accurate.

All reports required by this monitoring and reporting program are required pursuant to California Water Code Section 13267.

ORDERED BY *Roger J. J...*
Executive Officer

12-10-97
Date