7171

**STATE OF CALIFORNIA**
**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**
**LOS ANGELES REGION**

ORDER NO. 00-098
WASTE DISCHARGE REQUIREMENTS
FOR
SOUTHDOWN, INC.
(AZUSA PLANT)
(File No. 86-13)

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) finds:

1. Southdown, Inc., a.k.a. Transit Mixed Concrete Company (discharger), discharges sand, gravel and truck wash waters to percolation ponds under waste discharge requirements contained in Order No. 92-040 adopted by this Regional Board on June 1, 1992.

2. The California Water Code, Section 13263(e), provides that all waste discharge requirements shall be reviewed periodically and, upon such review, may be revised by the Regional Board. Following a review of requirements in Order No. 92-040, these requirements have been revised to include additional findings, limits, provisions, prohibitions, and a revised monitoring and reporting program. Furthermore, the Discharger is required to comply with tentative Monitoring and Reporting Program CI No. 7171, adopted by this Regional Board.

3. The discharger operates an aggregate and concrete batch plant (Facility) located at 1201 W. Gladstone Street, in Azusa, California (Figure 1). The discharger discharges up to 1.9 million gallons per day of sand and gravel wash waters, truck wash-out waters, and truck wash-off waters to unlined evaporation and percolation ponds. Area rainfall runoff is also diverted into the ponds.

4. The unlined ponds are located in the quarry area and may be relocated to different locations on the property depending upon the requirements of sand and gravel operations conducted by the discharger.

5. The Facility is located adjacent to the Azusa Land Reclamation Landfill Disposal Site (ALRLDS). An onsite groundwater production well was used to monitor background groundwater quality as part of the ALRLDS Solid Waste Assessment Test Program (SWAT) and was thereafter referred to as MW-4. Well MW-4 is located near the eastern portion of the landfill disposal site. However, this is a production well with a screening

interval of 350 to 614 feet with a twenty-inch casing diameter, and may not be suitable for groundwater monitoring purposes.

6. The discharger uses and discharges up to 1.9 million gallons per day (MGD). The majority of this water is pumped from MW-4.

7. Over the past 8 years, concentrations of total dissolved solids and nitrate in groundwater from production well MW-4 have periodically exceeded Basin Plan objectives of 450 mg/L TDS and 45 mg/L nitrate. As stated by the discharger during a telephone conversation with Board Staff on April 3, 2000, there are no nitrate or nitrogen containing products added to Facility operations.

8. The analysis of organic and inorganic compounds and volatile organic compounds from MW-4 and from effluent collected, as part of the quarterly monitoring program, on November 30, 1999, indicated the following:

| Analyte | Units | Effluent | MW-4 | WCO* |
|---|---|---|---|---|
| Chloride | mg/L | 29 | 30 | 100 |
| Nitrate (as $NO_3$) | mg/L | 62.4[1] | 63.3[1] | 45 |
| Sulfate | mg/L | 54 | 57 | 100 |
| Total Dissolved Solids (TDS) | mg/L | 385 | 488[2] | 500 |
| Carbon Tetrachloride | µg/L | ND | ND | 0.5 |
| Bromoethane | µg/L | ND | 2 | -[2] |
| Dibromochloroethane | µg/L | ND | 2.2 | -[2] |
| Dichlorodiflouromethane | µg/L | ND | 1.2 | -[2] |
| 1,1 Dichloroethane | µg/L | ND | 2.7 | 5 |
| 1,1 Dichloroethene | µg/L | ND | 137[1] | 6 |
| Cis 1,2 Dichloroethene | µg/L | ND | .7 | 6 |
| Tetrachloroethene | µg/L | ND | 7.5[1] | 5 |
| 1, 1, 1 Trichloroethane | µg/L | ND | 58 | 200 |
| Trichloroethene | µg/L | ND | 32.5[1] | 5 |

1 These concentrations exceed California Drinking Water Standards for Nitrate (as $NO_3$) for the effluent and groundwater. Concentrations of 1,1 Dichloroethene, Tetrachloroethene, and Trichloroethene in the groundwater exceed the California Drinking Water Standards in the groundwater from production well MW-4.

2 The "-" notation indicates no current Primary Drinking Water Standard.

* Based on Water Quality objectives from the *Water Quality Control Plan for the Los Angeles Region.*

9. Currently, the majority of the Facility's water requirements are met by MW-4 and supplemented by water supplied by the City of Azusa. The discharger uses the additional municipal water supplied by the City of Azusa as necessary to support its operations.

10. Small amounts of orthophosphoric acid or monophosphoric acid (approximately 5 gallons per day) are added to the waters used to wash the outsides of the concrete mix trucks. The discharger, through monitoring, is required to determine if these chemicals will cause degradation of the groundwater. The discharger does not use chemical additives in other aggregate and dust control operations.

11. The washout water from concrete mix trucks may contain residual amounts of additives used in concrete mixtures; monitoring activities performed by the discharger are designed to determine if there will be any adverse impact on groundwater due to discharge of these additives.

12. Lignin sulfonate is used for dust control in the yard, roadways, and stockpile areas. This chemical will not be permitted to enter the ponds.

13. The discharger has implemented a wastewater recycling process that uses coagulation chemicals. These chemicals are discharged to the silt ponds as well. The discharger through monitoring, is required to determine if these chemicals will cause degradation of the groundwater.

14. The silt collection ponds are located within the main San Gabriel Hydrologic Subarea of the San Gabriel Valley Hydrologic Area. The facility is located in the Baldwin Park Operable Unit of the San Gabriel Superfund Area and adjacent the Azusa Landfill. The effect on hydrology resulting from withdrawal and recharge of approximately 1 million gallons per day of groundwater is currently unknown..

15. The Board adopted a revised *Water Quality Control Plan for the Los Angeles Region* (*Basin Plan*) on June 13, 1994. The *Basin Plan* designates the beneficial uses and establishes water quality objectives for beneficial uses of groundwater and surface water. Beneficial uses designated in the *Basin Plan* for groundwater in this area include: Municipal and Domestic Supply, Industrial Process Supply, Industrial Service Supply, and Agricultural Supply.

16. The *Basin Plan* establishes water quality objectives for groundwater in the main San Gabriel Hydrologic Subarea. The requirements contained in this Order, as they are met, will be in conformance with the goals of the *Basin Plan.*

17. The project involves an existing facility, and as such, is exempt from the provisions of the California Environmental Quality Act in accordance with California Code of Regulations, Title 14, Chapter 3, Section 15301.

The Regional Board has notified the Discharger and interested agencies and persons of its intent to revise Waste Discharge Requirements for this discharge, and has provided them with an opportunity to submit their views and recommendations for the tentative requirements.

The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge and to the tentative requirements.

**IT IS HEREBY ORDERED** that Southdown, Inc. shall comply with the following:

A. EFFLUENT LIMITATIONS

1. Wastes discharged at this site shall be limited to truck washwater, sand and gravel washwater, dust control waters and storm water runoff.

2. Wastes discharged shall not contain constituents in excess of the following limits:

| Constituent | Units | Maximum Effluent Limitations |
|---|---|---|
| Sulfate | mg/L | 100 |
| Total Dissolved Solids[3] | mg/L | 450 |
| Boron | mg/L | 0.5 |
| Chloride | mg/L | 100 |
| Nitrate ($NO_3$)[4] | mg/L | 45 |
| Tetrachloroethene (PCE) | µg/L | 5 |
| Trichloroethene (TCE) | µg/L | 5 |
| 1,1 Dichloroethene (1,1 DCE) | µg/L | 6 |
| 1,1 Dichloroethane (1,1 DCA) | µg/L | 5 |
| 1,2 Dichloroethane (1,2 DCA) | µg/L | 0.5 |

[3] The discharger will be considered to be in compliance with this requirement if the total dissolved solids (TDS) concentration in the effluent for any month does not exceed the TDS concentration in the supply water for that month.

[4] The discharger will be considered to be in compliance with this requirement if the concentration of nitrate (as $NO_3$) for any month does not exceed the nitrate concentration (as $NO_3$) in the supply water for that month.

EFFLUENT LIMITATIONS (continued)

| Constituent | Units | Maximum Effluent Limitations |
|---|---|---|
| 1,1,1 Trichloroethane (1,1,1 TCA) | µg/L | 200 |
| Carbon Tetrachloride ($CCl_4$) | µg/L | 0.5 |
| Vinyl Chloride | µg/L | 0.5 |

3. The discharge of wastes or overflow from the silt ponds to any watercourse is prohibited at all times.

4. The pH of wastes discharged to the silt ponds shall be within the range of 6.0 to 9.0.

B. PROVISIONS

1. Wastes shall be discharged at the site covered by these requirements and only on property owned or leased by the discharger.

2. All wastes which do not meet each of the foregoing requirements shall be held in impervious containers, and if transferred elsewhere, the final discharge shall be at a legal point of disposal, and in accordance with provisions of Division 7.5 of the California Water Code. For the purpose of these requirements, a legal point of disposal is defined as one for which waste discharge requirements have been established by the California Regional Water Quality Control Board and which is in full compliance therewith.

3. Wastes discharged shall not contain any substance in concentration toxic to human, animal or aquatic life.

4. Neither disposal nor handling of wastes shall cause pollution, nuisance, or problems due to breeding of mosquitoes, gnats, midges, flies, or other pests.

5. Wastes discharged shall not cause tastes, odors, color, foaming, or other objectionable characteristics in groundwater.

6. A copy of these waste discharge requirements shall be maintained at the discharge facility so as to be available at all times to operating personnel.

7. In the event of any change in name, ownership, or control of these waste disposal facilities, the discharger shall notify this Board of such change and shall notify the

succeeding owner or operator of the existence of this Order, by letter, a copy of which shall be forwarded to the Board.

8. Written notification must be provided to this Board 180 days in advance of any changes of any chemical additives for sand and gravel washwater, truck washwater, or batch plant operations. These changes must be approved by the Executive Officer.

9. In accordance with Section 13260 of the California Water Code, the discharger shall file a report of any material change or proposed change in character, location, or volume of the discharge.

10. The discharger, through monitoring of pH and salts, shall determine if concrete mixture additives are adversely impacting groundwater quality.

11. In accordance with Section 13267 of the California Water Code, the discharger shall furnish, under penalty of perjury, technical monitoring reports; such reports shall be submitted as specified by the Executive Officer, subject to periodic revisions as warranted.

12. The discharger shall notify this Board immediately, by telephone, of any adverse conditions in the receiving waters as a result of the discharge of wastes from this facility. Written confirmation shall follow within one week.

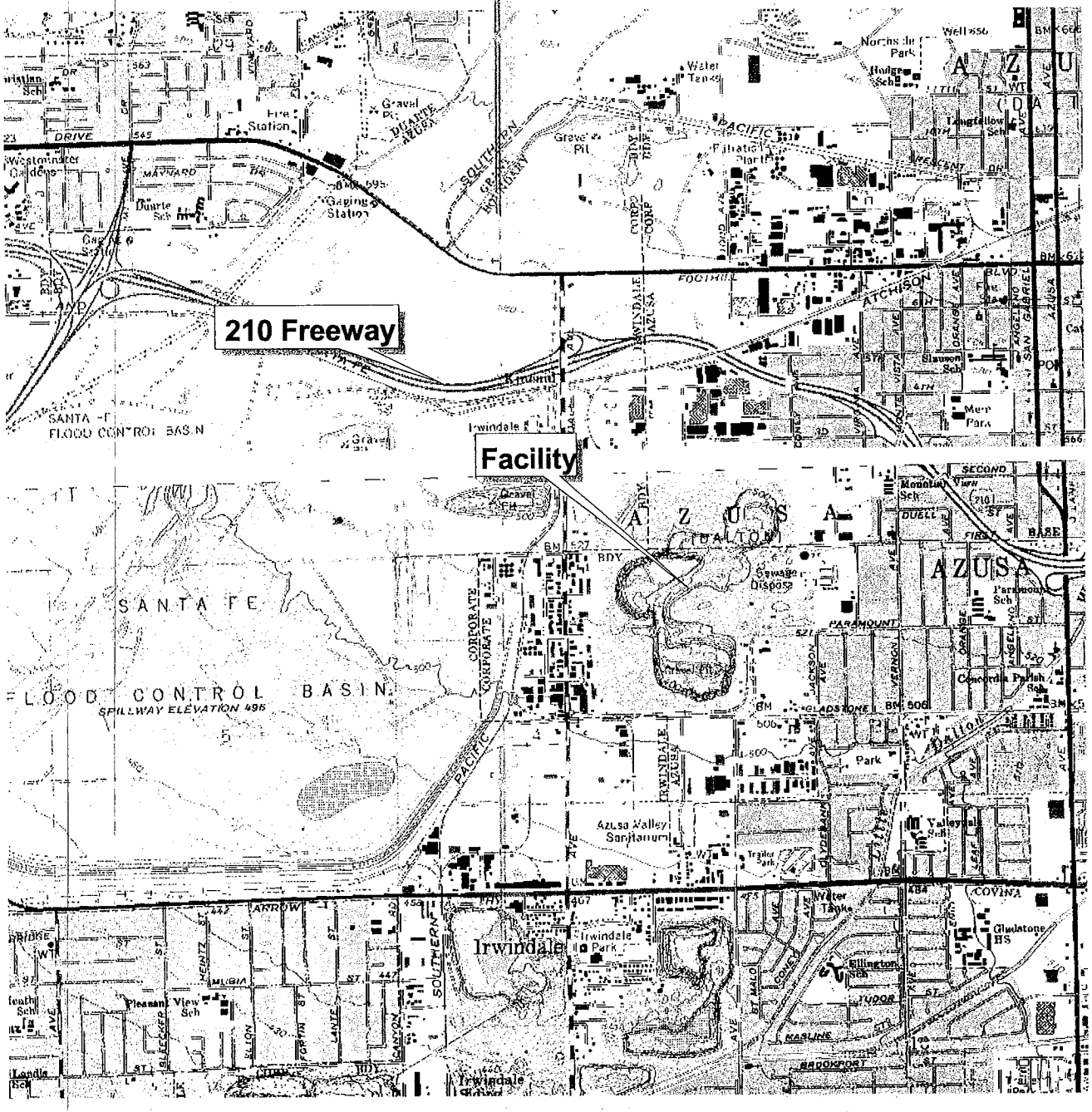
13. This Order includes attached "Standard Provisions and General Monitoring and Reporting Requirements".

C. RESCISSION

Order No.92-040, adopted by this Board on June 1, 1992, is hereby rescinded.

I, Dennis A. Dickerson, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on June 29, 2000.

Dennis A. Dickerson
Executive Officer

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# Los Angeles Regional Water Quality Control Board

## Figure 1: Southdown, Inc. (Azusa Facility) Location Map

0.7 0 0.7 1.4 Miles

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**
**LOS ANGELES REGION**
**MONITORING AND REPORTING PROGRAM (CI No. 7171)**
**FOR**
**SOUTHDOWN, INC.**
**(FILE No. 86-13)**

The discharger shall implement this monitoring program within 60 days of the effective date of this Order.

Monitoring reports shall be submitted by the dates in the following schedule:

| Reporting Period | Report Due |
|---|---|
| January – March | May 15 |
| April – June | August 15 |
| July – September | November 15 |
| October - December | February 15 |

The first monitoring report under this program shall be submitted by August 15, 2000, and shall include a list of chemical additives used, or that may be used, in concrete batch plant operations.

By February 15th of each year, the discharger shall submit an annual report to the Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and corrective actions taken, or planned, to bring the discharge into full compliance with the requirements.

## Influent Monitoring

Influent monitoring shall consist of the following parameters:

| Constituent | Units | Type of Sample | Minimum Frequency of Analysis |
|---|---|---|---|
| TDS | mg/L | grab | monthly |
| Nitrate | mg/L | grab | monthly |

## Effluent Monitoring

Surface sample(s) shall be collected where representative samples of washwater can be obtained closest to the point of discharge. Washwater samples may be obtained at a single station provided that the station is representative of the quality at all discharge points. A description of the sampling station(s), with a site location map shall be submitted with the monitoring reports, for approval by the Executive Officer.

| Constituent | Units | Type of Sample | Minimum Frequency of Analysis |
|---|---|---|---|
| Total Waste Flow | gal/day | recorder | Continuous |
| pH | pH Units | grab | Monthly |
| Total Dissolved Solids | mg/L | grab | Monthly |
| Chloride | mg/L | grab | Quarterly |
| Sulfate | mg/L | grab | Quarterly |
| Boron | mg/L | grab | Quarterly |
| Nitrate | mg/L | grab | Monthly |
| VOC (EPA 8260) Scan[1] | µg/L | grab | Quarterly |

## Groundwater Monitoring

A groundwater monitoring program shall be designed to evaluate impacts of the Dischargers wastewater discharges on the groundwater. The existing groundwater monitoring network consists of only one well. As this is not adequate, the Discharger shall upgrade this existing groundwater monitoring network. A workplan must be submitted to this Regional Board for review by September 30, 2000, and is subject to approval by the Executive Officer prior to implementation. The workplan shall include, at a minimum, proposed recommendations for the construction and development of groundwater monitoring wells, and include a further evaluation of chemical additives used in concrete mixtures, and their impacts on water quality.

At the time that sand and gravel washwater are sampled, representative[2] groundwater samples shall be collected and analyzed for:

| Constituent | Units | Type of Sample | Minimum Frequency of Analysis |
|---|---|---|---|
| pH | pH Units | grab | Quarterly |
| Total Dissolved Solids | mg/L | grab | Monthly |
| Chloride | mg/L | grab | Quarterly |
| Sulfate | mg/L | grab | Quarterly |
| Boron | mg/L | grab | Quarterly |
| Nitrate | mg/L | grab | Monthly |
| VOC (EPA 8260) Scan[3] | µg/L | grab | Quarterly |

1 All parameters detectable by this method

2 Representative groundwater samples shall be constituted by analysis of samples from a minimum of three monitoring wells, one hydraulically upgradient of the discharge location, and two hydraulically downgradient. A description of the monitoring wells, with a site location map shall also be included.

3 All parameters detectable by this method.

## General Provisions for Sampling and Analysis

Based upon the results of groundwater sampling and analysis, the Discharger may at any time submit, for approval by the Executive Officer, a proposal to reduce the frequency of, or eliminate the groundwater sampling and testing program.

All sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency.

All chemical, bacterial, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services Laboratory Accreditation Program or approved by the Executive Officer. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken, or proposed, which will bring the discharger into full compliance with requirements at the earliest time and submit a timetable for correction.

The discharger shall maintain all sampling and analytical results, including strip charts, date, exact place and time of sampling, dates analyses were performed, analyst's name, analytical techniques used, and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Board.

In reporting the monitoring data, the discharger shall arrange the data in tabular format so that the date, the constituents, and the concentrations are readily discernable. The data shall be summarized to demonstrate compliance with Waste Discharge Requirements and, where applicable, shall include results of the receiving water observations.

Monitoring reports shall be signed by:

a. In the case of a corporation, the principle executive officer or his/her authorized representative, if the representative is responsible for the operation of which the discharge originates;

b. In the case of a partnership, by a general partner;

c. In a case of a sole proprietorship, by the proprietor;

d. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official or other duly authorized employee.

Each report shall be contain the following completed declaration:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. [CWC Sections 13263, 13267, and 13268]

Executed on the ____day of_____ at _____

_____(Signature)

_____(Title)"

Ordered by Dennis A. Dickerson _____ Date: June 29, 2000

Dennis A. Dickerson,
Executive Officer