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MUNICIPALITY OF METROPOLITAN SEATTLE

INDUSTRIAL WASTE DISCHARGE PERMIT

APPLICATION FORM

Application is hereby made for a permit to discharge wastes into the Municipality of Metropolitan Seattle sewer system in accordance with RCW 90.48.165, RCW 35.58.180, RCW 35.58.200, RCW 35.50.360, and Metro Resolution 2310.

Section A General Information:

1. Company Name Lone Star Industries, Inc.

2. Mailing Address P.O. Box 1020, Seattle, Washington 98111

3. Location of Plant Discharging Wastes if different from above 901 Fairview Avenue North, Seattle, Washington 98109

4. Name, title, address, and telephone number of person to contact concerning information in this questionnaire:

Name J. W. Post Title Production Manager

Address P.O. Box 1020, Seattle, Wa. 98111 Phone No. 622-2900

Section B Product or Service Information:

1. Brief narrative description of manufacturing or service at plant address:

Lone Star Industries, Inc.

901 Fairview Ave. North

Seattle, Washington 98109

USEPA SF
1316384

2. Raw Materials and Chemicals Used in Processes:

Brand Name	Chemical, Scientific or Actual Name	Quantities Used per Day Average	Maximum
LSI	Portland Cement	30M Ton	120 Ton
LSI	Washed Sand & Gravel	190M Ton	1080 Ton
Master Builders	344N Pozzolith	26,000	40 Gal.
Master Builders	122 HE Pozzolith	16,500	24 Gal.
Same	AE-10 Air Entrainment	20,000	28 Gal.
Same	100XE Pozzolith	17,000	23 Gal.
Jared Chem.	Calcium Chloride	8,000	50 Gal.

3. Describe how raw chemicals and hazardous materials are stored. Have steps been taken to insure that spills resulting from accidental spillage or ruptured containers will not enter a waterway or sewer?

These chemicals are stored in cylindrical containers above ground and materials are pumped into them.

4. Products Manufactured or Processed:

	Products	Quantity and Unit Average	Maximum
1.	Ready-Mix Concrete	700 C/Y per Day	3000 C/Y per Day
2.	Sand and Gravel	150 Tons per Day	800 Tons per Day
3.			
4.			
5.			

Section C Plant Operational Characteristics:

1. Plant Operations:

	Days per Year	Number of Employees per Shift Day	Night	Swing
Average	240	45	3	0
Maximum	250	50	3	0

2. Explain any seasonal variation you may have in waste discharge volumes, plant operations, raw materials, and chemicals used in processes, and/or production:

The months of November thru February are our low production months.

3. Give a detailed description of the sources of all industrial waste within your industry. Describe in detail the treatment given each of these wastes. Include in this description the disposal methods used for these wastes and also for any sludge collected by your waste treatment system. Include a schematic flow diagram showing the sources of all wastes and their flow pattern. Include this information with your application as Exhibit 1.

4. Metal finishing and metal etching industries give a breakdown of capacity and number of tanks by solution type, concentration, and estimated dragout. Identify tanks containing significant quantities of phosphorous, nitrogen, heavy metals, cyanide and etching solutions that concentrate heavy metals. Describe what precautions have been taken to contain and prevent discharge of plating solutions spilled as a result of ruptured or leaking tanks. Include this information with your application as Exhibit 2.

Section D Water Consumption and Loss:

1. Source of supply City of Seattle Water Supply

2. List water consumption within the plant.

	Average Gal./Day	Maximum Gal./Day
a. Industrial processing	3000	4000
b. Cooling	0	0
c. Boiler feed	0	0
d. Water incorporated into product	10,000	14,000
e. Other (Specify)	0	0

Raw water treatment (specify water conditioning chemicals used) 0

3. List discharge or water losses to:

	Average Gal./Day	Maximum Gal./Day
a. Municipal sewer (industrial and sanitary waste water)	0	0
b. Surface waters and storm sewers (specify)	1350	1500
c. Waste haulers	0	0
d. Evaporation	0	0

4. Describe all waste water treatment equipment or processes in use: (1) - Washing water discharge to recovery screw for sand and gravel separation, then to sedimentation pond.

   (2) - Mixing water overflow to batch plant.

   (3) - Transport of consolidated cement slurry.

5. Planned waste treatment improvements: (Submit on separate sheet as Exhibit 3). Describe any additional treatment or changes in waste disposal methods in planning or under construction.

6. Give any additional information or comments you feel necessary to clarify this application as Exhibit 3. Include all information for previous questions, where additional space is necessary as part of Exhibit 3.

7. The information given on this application is correct and accurate to the best of my knowledge.

J. W. Post
Signature

J. W. Post
Printed

March 30, 1981
Date

Production Manager
Title

* Please specify units. For example: Tons/day, pounds per day, barrels per day, etc.

Exhibit 1

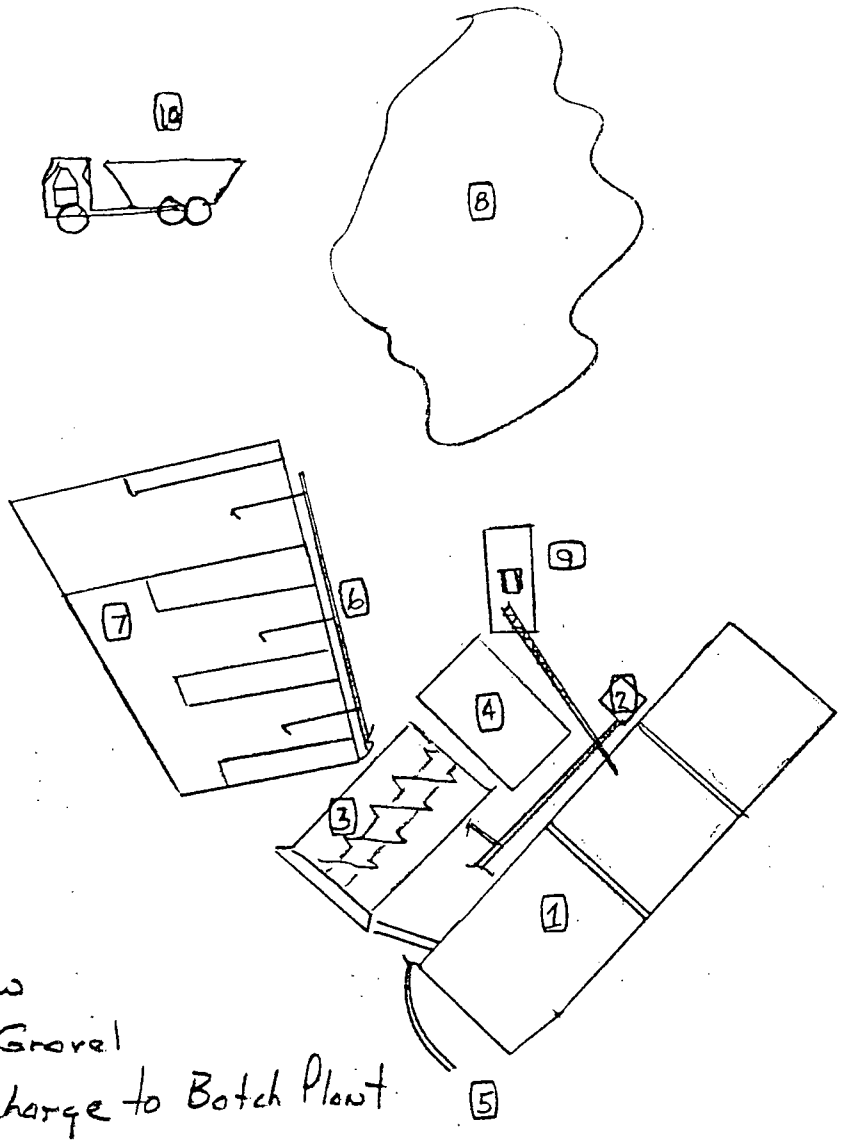
Section C, Paragraph 3 -

Normally, our ready mixed concrete trucks are washed out at the end of each day into trough #6 on the attached functional diagram. This flows into a screw classified #3 which separates the sand and gravel into pile #4. Wash water containing some fines are put into slurry ponds #1 and settle overnight. The fines settle out and the top clear water is used for concrete make up water and truck washout. Solid wastes are hauled by truck to an approved dump site.

Exhibit 1

Functional Diagram

Ref: Page #3
Item #3



1. Slurry Pond
2. Waste Water Pump
3. Separation Screw
4. Recovered Sand & Gravel
5. Mixing Water discharge to Batch Plant
6. Wash & Mixing water discharge.
7. Wash rack for Mixer trucks
8. Sedimentation Zone
9. Crane to Remove cement slurry from Ponds.
10. Transport of consolidated cement slurry.

Exhibit 3

Section D, Paragraph 6 -

Permission is requested to put some of the waste water into the sewer so that when we need to repair the washout system, it can be drained. This water is fairly pure as shown by the attached laboratory test report.

Exhibit 3

NORTHWEST LABORATORIES

of Seattle, Incorporated

Technical Services for: Industry, Commerce, Legal Profession & Insurance Industry

FIRST AVENUE SOUTH • SEATTLE, WASHINGTON 98134 • Telephone: (206) 622-0680

Report to: Lone Star Industries

Date: December 18, 1980

Report on: Reclaimed Wash Water

Lab. No. E20912

SUBMITTED:

Approximately five gallons of wash water containing settled and suspended solids.

PURPOSE:

Analyze wash water for solids content and specific gravity.

ANALYSIS:

	As received
Solids, %	0.07
Specific gravity, 60°F	1.004

Clyde J. Ambacher
CLYDE J. AMBACHER

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