

MEMORANDUM
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Publication No. 71-e32

TO: Nelson Graham - Ron Lee

DATE: May 24, 1971

FROM: Norm Thomas

SUBJECT: Harbor Bell, Inc.

On May 17, 1971, I conducted a survey on the efficiency of the Shaker Screen Treatment of the waste water from the Harbor Bell, Inc., crab processing plant at Bay Center, Washington.

Sampling points were the influent into the screen and the discharge from the screen. The samples were analyzed for BOD and Suspended Solids. Results are shown in Table 1.

Table 1.

	<u>T.S.S.</u> <u>pdm</u>	<u>T.S.N.V.S.</u> <u>pdm</u>	<u>T.S.V.S.</u> <u>pdm</u>	<u>BOD</u> <u>pdm</u>
"Back Processing" - Influent	194	40	154	481
Effluent	129	31	98	485
"Leg Processing" - Influent	2059.	811	1248	968
Effluent	182.	32	150	428

These samples were blended to increase the probability of receiving a representative sample.

The estimated water use per day is 30,000 gallons. Observations ~~are~~ made during plant operation:

There was a continuous untreated discharge from the bypass hole of the collecting sump tank of about 10 to 15% of the total waste water throughout the operating day.

There are several drain holes in the deck throughout the plant that allow untreated waste water to discharge directly beneath the building.

During the clean up period and processing of the crab leg shells, the shaker screen became over loaded two times, allowing the untreated effluent to over-flow through the shell hopper to the river. It appears the problem of overloading the screen could be eliminated by periodically, possibly every half hour, processing the crab leg shells instead of letting them accumulate throughout the day.

The plywood sump, for collecting the waste water was leaking in a couple areas, at the seams, discharging directly into the river.

NOT:je