

		<b>VISUAL CHECK LIST</b>		
<b>Equipment Operation</b>	<b>Aeration Tank</b>	<b>Settling Tank</b>	<b>Effluent</b>	<b>Comments &amp; Corrections</b>
1. All equipment operating properly.	Air bubbles rising, chocolate color, little or no foam, 20-30% solids, no more than 1ppm D.O.	Surface clear to a depth of 18 inches	Clear, sparkling. No solids. More than 1ppm D.O.	All good-Continue same operation.
2. Same	Few or no air bubbles rising. Black color. No D.O.	Dark and murky.	Murky. Odor. High solids.	Check for major air leaks. Clean diffusers and air lines. When corrected aerate continuously until brown color and D.O. return. Then return to time clock operation.
3. Equipment not operating (check time clock first, may not be on "off" cycle).	Same	Same	Same	Check for power outage, fuses blown-replace. Reset circuit breaker. Motor overloaded-push reset button. Check overload heaters if reset button does not start motor. Check "V" belt drive.
4. All equipment operating.	Air bubbles rising. Light muddy color, too much foam, 5-10% solids, murky supernatant, poor separation of liquid and solids.	Murky, no visible sludge blanket. Floating sludge in some areas.	Murky. High solids.	Observation- plant is running too much. Reduce running time to minimum necessary to maintain brown color. Common during start-up period. Use commercial de-foamer if necessary.
5. All equipment operating properly.	Air bubbles rising. Chocolate or gray color, 10-25% solids, 1-3ppm D.O.	Murky, large chunks of floating sludge.	Murky, high solids.	Probably due to inadequate sludge return-scrape tank more often-check return pump (should be returning pipe full). (See Special Maintenance Section) Also, see item 4 on checklist.
6. Same	Air bubbles rising, chocolate color, 20-30% solids, 1-3ppm D.O.	Clear at surface, visible sludge blanket 12" or so below surface.	Not murky, excessive solid particles, D.O. approximately at 1ppm.	May be due to excessive sludge return and/or skimming. (See Special Maintenance section). Possibly due to inadequate return (See item 5). Also, check B.O.D. and flow-plant maybe overloaded.
7. All equipment operating properly except skimmer.	Same	Much floating material.	Clear, no solids, D.O. more than 1 ppm.	May be due to clogged or improperly set skimmer-adjust or unclog. (See Special maintenance section).
8. All equipment operating properly except for sludge return.	Same	Same as item 5	Same as item 5	Probably due to clogged

				sludge return. Check air supply lines. (See Special Maintenance Section).
9. Equipment will work on manual but not automatic.	Same as item 2	Same as item 2	Same as item 2	Possible failure of time clock, have electrician check. Overload may be released-push reset button.
10. All equipment operating properly except spray systems.	Same as item 1. Excessive foam.	Same as item 1	Same as item 1	Possible spray pump not operating-check power supply and push reset. Possible pump plugged-remove pump and clean intake. Possible clogged nozzles- clean.
11. All equipment operating properly.	Air bubbles rising. Light muddy color. Yellow foam, grease balls. No dissolved oxygen.	Murky brownish-yellow floating greasy sludge. Excessive grease.	Murky. Excessive solids.	Possible excessive amounts of grease coming into plant- check grease trap-remove grease before it gets to plant.