

## SOP – SPRAY FIELD APPLICATION

- Maintain a lagoon level that meets or exceeds regulations (20 inch minimum.)
- Check and record rainfall weekly. Record sheet is located in office on the wall.
- Monitor long-range weather forecast. (Watch local weather daily.)
- Coordinate spray application with harvest. During harvest season, communicate with Joe Smith @ (phone #) to coordinate hay removal/spray application.
- Spray when conditions are right (refer to certification training for Operations of Animal Waste Management manual located on bookshelf in office- (chapter 5)
- Go to pump. Check oil, crank, prime, crank, lines fill up turn rpms to 1800-2000. Watch for clogs, proper turning of spray. If clogged or not turning, repair. The pump is operating at 14.2 gallons per/min. Calculations to how long/how much to pump is based on PAN and crop analysis. Refer to DWQ box in office for specifications. Turn to low speed. Let run for 5 mins., turn off.
- Coordinate planting of winter crops with Joe Smith @ (phone #).
- Monitor water delivery system for leaks daily. Visual inspection for leaks daily. If leaks are detected fix as required.
- Perform scheduled maintenance on the irrigation equipment. Change oil and pump every 100 hours. Record hours on filter when installing new filter. Grease pump approx. twice a year as per visual inspection. Change fuel filters on pump at every other oil change. Record date on filter. Change air filter annually. Record date on filter.
- Keep accurate irrigation records. Records are located in the DWQ box and on the main computer.
- Perform weekly inspection of lagoon marker. Weekly inspection is recorded on freeboard sheet located on wall in office. Replace lagoon marker if/when damaged as needed.

### Consequences from departure

Departure from this procedure once will require re-training. If departure more than once the employee will be relieved from their duties.

Other consequences include possible fines, or closure of farm.

Surface water run-off- (effects on flora and fauna and fish).

Over application of nitrogen – (leach to groundwater, ditches, streams, waterways, encouraging excess algae growth, which can cause oxygen depletion, and fish kills) also may get into wells.

Excess lagoon water applied to cropland depletes oxygen in the soil, which in turn causes root decay. This problem can cause reduced growth/yields or depending upon severity death of the crop.