

SWG-2001-02279

Newport Marina
Permit SWG-2001-02279

DISSOLVED OXYGEN
MONITORING PLAN

ATTACHMENT A

DISSOLVED OXYGEN MONITORING PLAN

1. Dissolved oxygen (DO) monitoring is proposed to be performed twice per month, May through October, for the first year following the completion of any section of the canal system. Monitoring will be initiated once any section of the canal system is constructed. If construction is phased, monitoring will occur as each phase is constructed. Subsequent monitoring events will continue every year after the first year until a 90% build out of landside structures and infrastructure is achieved or until the Texas Commission on Environmental Quality (TCEQ and U.S. Army Corps of Engineers (USACE) determines that there is minimal impact on water quality.
2. DO, temperature, and conductivity/salinity readings will be taken by qualified personnel. The probes will be maintained and calibrated according to the manufacturer's specifications and to TCEQ monitoring procedures.
3. Data will be collected no later than one hour after sunrise and within four hours of sunset.
4. Data collection points will be chosen for each monitoring year based on areas of the canal system that have the largest concentrations of human use and proximity to the Flato Basin. A minimum of four canal locations will be sampled. Throughout subsequent years of monitoring, data collection points will continue to be positioned within high density areas near the Flato Basin, as well as within areas exposed to new construction.
5. Data collected during Year 1 of monitoring will be submitted to the USACE Corpus Christi Regulatory Field Office, the TCEQ, and all other requesting agencies. Subsequent monitoring reports will be submitted to the TCEQ and all other requesting agencies.
6. Results will be compared to the nearest functioning monitoring station in Corpus Christi Bay. If the DO levels are indicated to be below 4.0 mg/L within the canal system, while higher levels exist within the nearest monitoring station in Corpus Christi Bay, the event constitutes a deficiency. Deficiencies will be immediately reported to the TCEQ along with a proposed action plan to alleviate low DO levels and prevent levels from falling in the futures. Aeration/circulation equipment may be proposed for installation to help restore/maintain acceptable DO levels. However, these measures may be proposed as a last resort to improve water quality since the systems, and thus water quality in the canal system, would be subject to continuous maintenance.
7. Best Management Practices (BMPs) will be utilized during and after construction to minimize any potential stormwater run-off. BMPs to be used during active construction include turbidity curatins and silt fences. Lots will be developed and graded to slope away from receiving waters to eliminate stormwater run-off. Following construction, stormwater from a portion of the site and drainage from Hwy 361 will be directed to a 9 acre constructed wetland designed for this purpose. Limited application of pesticides and fertilizers will be encouraged, with all use being conducted by licensed professionals only. The applicant will participate in the EPA's Clean Marina Program.
8. TCEQ and Texas Parks and Wildlife Department (TPWD) staff will be immediately contacted in the event of a fish kill within the canal system.

HDR ENGINEERING, INC.
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FIELD DATA SHEET

DATE	TIME	STATION	TEMPERATURE (°C)	CONDUCTIVITY/SALINITY (ppt)	DISSOLVED OXYGEN (mg/L)

Note: Measurements taken approximately one ft. below water surface.

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