



WATER USE PERMIT APPLICATION

Dewatering Use Supplemental Form D



South Florida Water Management District
3301 Gun Club Road, West Palm Beach, Florida 33406 (561) 686-8800
www.sfwmd.gov/ePermitting

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| SECTION D1 – PARCEL/SITE INFORMATION |
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| Parcel/Site Name (each non-contiguous parcel or field) | Acres Owned/ Leased | Section(s), Township, Range (S_/T_/S/R_E) | County Parcel Identification Number (or attach digital GIS Shape file) |
|---|---------------------------|---|--|
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| | | | |
| TOTAL ACRES OWNED/LEASED | | | |

Submit a map showing (if available, provide items A through G in a District-approved electronic format, e.g. ESRI shapefile, Autocad, DXF, KMZ, or compatible GIS file):

- A. The project boundaries of the property owned or controlled by the permittee/applicant;
- B. The area on the property that is being or will be dewatered;
- C. All existing and proposed withdrawal point locations. Label all wells, pumps and culverts so they match the IDs provided in the Application form (Section IV - Sources of Water);
- D. A north arrow and map scale;
- E. Labeled landmarks such as roads and political boundaries;
- F. Show the dewatering operation including the discharge routing, any pre-mitigation measures, such as hydraulic recharge/intercept ditches, on-site storage areas, off-site discharge points, wetlands, existing legal users, contamination sites, and/or saline water; and
- G. Provide locations of any groundwater augmentation points.

Type of dewatering permit requested:

- Standard Individual (up to one year) Standard Individual (greater than one year) Master Individual

A Standard permit would represent projects that are defined and a Master permit would represent projects with phases, undefined activities or no contractor at the time of permit application.

Refer to the Applicant’s Handbook, Section 2.3.2(B).

SECTION D2 – WATER USE INFORMATION

1. DEWATERING

- A. Indicate method(s) of dewatering;
- B. Explain how water from dewatering activities or from ground or surface water withdrawal points is to be used, transferred, discharged or stored on site for each phase of the project;
- C. List methods that will be implemented to mitigate turbidity and prevent hydrologic impacts;
- D. Identify all wetlands on or adjacent to the project which may be impacted;
- E. Identify all existing legal users on or adjacent to the project which may be impacted;
- F. Locate and describe all sources of groundwater contamination or pollution;
- G. Locate and describe the location of the nearest saline water;
- H. Provide a contingency plan which describes how storm water will be managed during dewatering operations (include volume calculations and area of influence);
- I. Identify the areal extent of the drawdown of the aquifer;
- J. Provide the proposed timeline and duration for progression of the dewatering activities either on the map or in narrative format;
- K. Identify the length, width and cross sections with elevation and datum information for all dewatered areas, proposed storage areas and pre-mitigation constructions; and
- L. Provide the maximum depth of dewatering and excavation.

2. DISCHARGE

Is off-site discharge proposed as part of this operation? Yes No

If the site is in a Water Reservation Area, no offsite discharge is allowed in excess of the reserved amount.

If off-site discharge is proposed as part of this operation, please demonstrate that it is not technically feasible to retain water onsite and provide the following information:

- A. Documentation of authorization that allows the applicant to discharge directly into the receiving water body and/or adjacent lands, and a demonstration that the receiving water body or adjacent lands are capable of accepting the dewatering discharge;
- B. An operations plan which demonstrates that the discharge to the receiving water body will meet all applicable State Water Quality standards prior to discharge; and that the discharge to protected wetlands will not contain turbidity levels in violation of State Water Quality standards prior to discharge;
- C. A monitoring plan which includes, at a minimum, proposed sampling locations and daily turbidity measurements of the discharge and background conditions in the receiving body and/or wetland; and
- D. A contingency plan which includes procedures for ceasing dewatering operations and correcting the situation until monitoring demonstrates water quality standards are met.

SECTION D3 – WATER BALANCE

WATER BALANCE – Provide a water balance that demonstrates where and in what quantities water is generated to accomplish the dewatering, including any associated losses, and where and in what quantity water is stored, recharged, disposed, or reused. The tables below may be used to assist in developing that water balance. If processing of materials is associated with the dewatering, a separate water balance describing these activities is required.

Dewatering:

| Phase/Description | Pump Capacity (gal/min) | Operation Period (gal/day) | Max Daily Pumpage (gal/day)* | Max Pumpage Duration (days)* | Average Daily Pumpage (gal/day)* | Average Pumpage Duration (days)* | Total Pumpage (million gallons) |
|-------------------|-------------------------|----------------------------|------------------------------|------------------------------|----------------------------------|----------------------------------|---------------------------------|
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| TOTAL: | | | | | | | |

* Dewatering operations can include a high volume startup period followed by lower volume maintenance pumping.

Discharge:

| Discharge Location | Description | Annual Average (gpd) | Peak Month (gpd) |
|--------------------|-------------|----------------------|------------------|
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Extent:

| Phase/Description | Average Land Surface (ft. NAVD/NGVD) ¹ | Water Table Elevation (ft. NAVD/NGVD) ¹ | Lowest Excavated Elevation (ft. NAVD/NGVD) ¹ | Depth of Dewatering Elevation (ft. NAVD/NGVD) ¹ | Areal Extent of Drawdown ² (feet) |
|-------------------|---|--|---|--|--|
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¹Please indicate how data is represented by circling NAVD or NGVD.

²Can be calculated using an analytical or numerical model (i.e. Theis or Modflow) or empirical formula (i.e. Sichardt). Please provide input and output files for models and calculations for formulas.

SECTION D4 – REQUESTED WATER USE

1. Complete the requested water use table below. Provide projected water amount for each applicable use type and the water source(s) associated with the use type. Typical dewatering water demands are listed below.

| Dewatering Use Type | Requested Amounts and Sources of Water (MGY ² /MGM ³) | | |
|---------------------|--|------------------------|------------------------|
| | Source 1 Name ¹ _____ | Source 2 Name _____ | Source 3 Name _____ |
| Dewatering | / | / | / |
| Discharge from site | / | / | / |
| Other _____ | / | / | / |
| Total | / | / | / |

¹ Provide the name of the water source. Examples include the water table aquifer, mining pit, canal/ditch, pond, etc.

² MGY = Million gallons per year of water to be withdrawn over a 12-month time period (i.e. 1,500,000 gallons each day/1,000,000 = 1.5 x 365 = 547.5).

³ MGM = Maximum million gallons per month of water to be withdrawn in any single month.

2. Please provide a description of the methodology used to calculate the requested water amounts for each use type in the table above. Attach additional sheets, if necessary.
