

NPDES GENERAL PERMIT COVERAGE APPENDICES F and G

HYDROTESTING AND CONSTRUCTION
DEWATERING

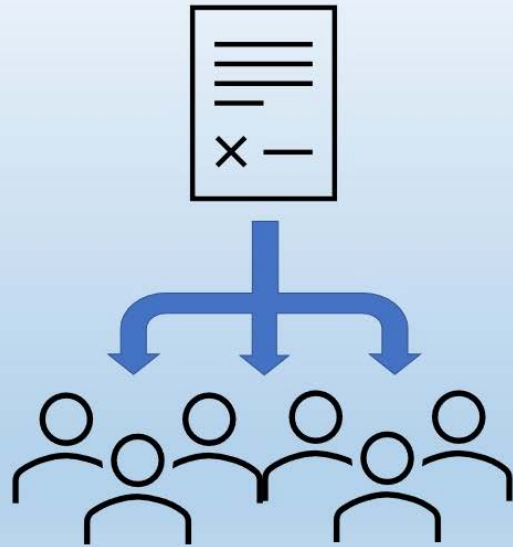
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OBJECTIVES

- General Permit Coverage
- Hydrotesting and Construction Dewatering
 - What is it?
 - Notice of Intent (NOI) requirements
 - Effluent Limitations
 - Current Status
 - Changes from last permit
 - Final thoughts and questions

NPDES GENERAL PERMIT COVERAGE



General Permit Coverage

- One Permit – Many Permittees
- Discharge/Activity-Specific
- One-Size-Fits-All Conditions
- Submit Notice of Intent (NOI)
- 5-Year Maximum Coverage Term
- Issued Notice of General Permit Coverage (NGPC)
- Certain Parts of NGPC Coverage Cannot be Modified (e.g., Cannot be Modified to Include New Discharges/Work Areas)

APPENDICES F AND G RENEWAL

- Effective January 15, 2022- January 14, 2027
- Continued coverage under the new permit required new NOI submittal
- Old permit expired January 15, 2022.
- March 16, 2022 was deadline to apply for coverage under new permit

NEED PERMIT
COVERAGE?

How to Apply for Coverage

See the below for a basic introduction and instructions on how to apply for NPDES permit coverage and the application approval process.

e-Permitting Portal

The screenshot shows the homepage of the Hawaii Environmental Health e-Permitting Portal. The header features the Department of Health logo and navigation links. The main content area is divided into several sections:

- Organizations:** A section for selecting an organization from which to submit a form, with a "Select Organization" button.
- Forms:** A section for finding specific forms, with a "Form Finder" button.
- Frequently Asked Questions:** A section with three questions: "How do I contact for help with my permit?", "Why do I receive legal to look at or what an online application form?", and "I have registered but cannot login because my account is inactive."
- How to use E-Permitting:** A section with a "Contact Information" box containing the address (227 Thurston Street, Pearl City, HI 96762) and phone number (808-586-6300).
- Forms:** A section for finding a specific form, with a "Form Finder" button.

At the bottom, there is a footer with contact information for the Department of Health e-Permitting, including the address (227 Thurston Street, Pearl City, HI 96762) and phone number (808-586-6300).

<https://health.hawaii.gov/cwb/general-permits/>



APPENDIX F HYDROTESTING WATERS

HYDROTESTING- WHAT IS IT?

- Hydrotesting Waters- water used to test the integrity of a tank or a pipeline, water used to flush a tank or pipeline, and effluent used to disinfect a tank or pipeline.
- Intermittent discharges- when installing or repairing new lines, new tanks

HYDROTESTING POTENTIAL POLLUTANTS?

- Toxics
- Sediment (from erosion or otherwise)
- Oil, grease, if expected to contain
- Chlorine



HYDROTESTING NOI REQUIREMENTS



Project Description



Analysis of Hydrotesting Water



Hydrotesting BMP Plan



Transmission line sampling required, estimate/
calculate quantity



Basic WQ criteria/ Inspection receiving state
waters.

EFFLUENT LIMITATIONS

- Total Residual Chlorine ($\mu\text{g/L}$): 15-minute holding time
 - 19 (freshwater); 13 (saline water)
 - **Test kits** compliant with 40 CFR Part 136, detection limit of 20 $\mu\text{g/L}$ or lower

CHAPTER 11-55 APPENDIX F

TABLE 34.4

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR HYDROTESTING WATER DISCHARGES

Effluent Parameter	Effluent Limitations {1}	Minimum Monitoring Frequency {2}	Type of Sample
Quantity of Discharge (gallons)	Report	Once/Discharge	Calculated or Estimated
Total Suspended Solids (mg/l)	55	Once/Discharge	Grab {3}
pH (standard units)	6.0 - 8.0	Once/Discharge	Grab {3}, {4}
Total Residual Chlorine ($\mu\text{g/l}$) {5}	19{6} 13{7}	Once/Discharge	Grab {3}

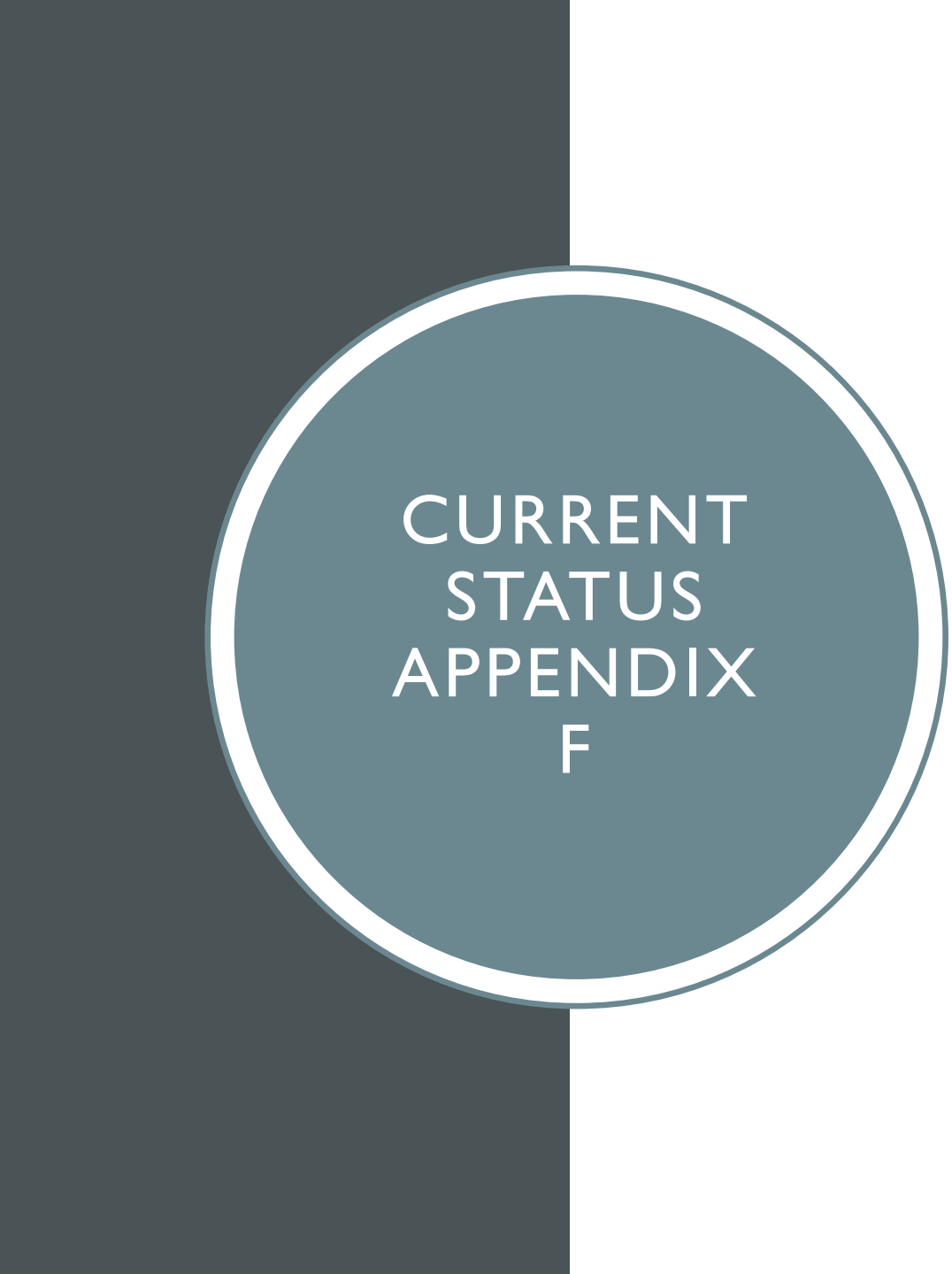
mg/l = milligrams per liter

$\mu\text{g/l}$ = micrograms per liter

NTU = nephelometric turbidity units

OTHER PARTS OF PERMIT

- Corrective Actions
- Reporting Requirements
- Submittal Requirements



CURRENT
STATUS
APPENDIX
F

- Approximately 38 permits
- Board of Water Supply
- Larger developments- infrastructure

- Link to FAQs:
<https://health.hawaii.gov/cwb/files/2022/01/NPDES-Hydrotesting-General-Permit-FAQs.pdf>

**APPENDIX G
CONSTRUCTION ACTIVITY
DEWATERING**

CONSTRUCTION ACTIVITY DEWATERING- WHAT IS IT?

- Covers discharges from the dewatering process of construction activities of any size, including treated storm water discharges, upon compliance of the applicable general permit requirements
- Side note- does anyone have PTSD from the previous permit?





APPENDIX G WHEN DOES IT APPLY?

- Construction activities that require the removal or displacement of water that is going to be discharged into State waters.
- Examples: bridge replacement or repair
- Tunnel construction

APPENDIX G NOI REQUIREMENTS



Site characterization report- history of site



Project description- disturbance area, portion of project needing construction dewatering



Analysis of source water quality



Site specific dewatering plan

Pumping devices, capacity, treatment design, mitigative measures

APPENDIX G
NOI
REQUIREMENTS
(CONT)



Construction pollution prevention plan- includes practices to control project site runoff, spillage or leaks, sludge or waste disposal, drainage from raw material storage.



Dewatering system maintenance plan- includes operations plan, sediment handling and disposal plan, monitoring and visual inspection program, effluent control plan

PERMIT REQUIREMENTS

- Treat dewatering discharges
 - Sediment basins, traps, socks, dewatering tanks, tube settlers
 - Downstream erosion controls- vegetated buffers, check dams, riprap.
- No visible plumes, floating solids or foam
- Use oil-water separator if water contains oil or grease
- Use upland vegetated areas to infiltrate before the discharge
- Dissipate velocity to minimize erosion- can use check dams, or other devices

UNSUCCESSFUL
DEWATERING



APPENDIX G CREATIVE SOLUTIONS FOR NOT DISCHARGING

- Put the water back where it came from
- Irrigation use
- Infiltration
- Dust control
- Injection well
- Apply to vegetation

EFFLUENT LIMITATIONS

CHAPTER 11-55 APPENDIX G

TABLE 34.5

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR CONSTRUCTION DEWATERING DISCHARGES

Effluent Parameter	Effluent Limitations {1}	Minimum Monitoring Frequency {2}	Type of Sample
Quantity of Discharge (GPD or gpm)	Report	Once/Month	Calculated or Estimated
Total Suspended Solids (mg/l)	55	Once/Month	Grab
Oil and Grease (mg/l)	15	Once/Month	Grab {3}
pH (standard units)	6.0 - 8.0	Once/Month	Grab {4}

GPD = gallons per day
gpm = gallons per minute
mg/l = milligrams per liter

NOTES:

CURRENT STATUS

- Approximately 9 permits
- Counties, bridge replacements

Link to FAQs: <https://health.hawaii.gov/cwb/files/2022/01/NPDES-Dewatering-General-Permit-FAQs.pdf>

FINAL THOUGHTS

- General permits are evolving
- Hydrotesting- we see what can happen when lines and tanks fail
- Dewatering permits may become more prevalent as we adapt to climate change

A close-up photograph of a dandelion seed head, showing the intricate structure of the seeds and their fine, white, feathery pappus. The background is a soft, out-of-focus green, suggesting a natural outdoor setting. In the upper left corner, there is a black circle with a white border, containing the word "MAHALO!" in white, uppercase letters.

MAHALO!