Docker Compose + Airflow Database Connection CheatSheet

Airflow is a highly configurable WMS that relies on sqlalchemy for its connection strings. There are subtle differences in a typical sqlalchemy connection string and a Celery connection string that I will illustrate below.
Set these variables in your docker-compose and your airflow.cfg (~/airflow/airflow.cfg) in order to get up and running with a killer Airflow Dev Environment!

Docker Compose Service	Connection
Typical SQLAlchemy	

airflow_postgres_db:
   image: postgres:11.1
   # Set up postgres database name and password
   environment:
    POSTGRES_DATABASE: airflow
    POSTGRES_USER: airflow
    POSTGRES_PASSWORD: password
	# DB_TYPE+DB_DRIVER://$USER:$PASSWORD@$HOST:$PORT/$DATABASE_NAME
	
	sql_alchemy_conn = postgresql+psycopg2://airflow:password@airflow_postgres_db:5432/airflow

Celery Specific SQLAlchemy	

celery_results_postgres_db:
   image: postgres:11.1
   environment: # Set up postgres database name and password
    POSTGRES_PASSWORD: password
    POSTGRES_DATABASE: celery
    POSTGRES_USER: celery
	# http://docs.celeryproject.org/en/latest/userguide/configuration.html#task-result-backend-settings
	
	result_backend = db+postgresql+psycopg2://celery:password@celery_results_postgres_db:5432/celery

Celery Broker Celery Specific SQLAlchemy	

rabbit:
 hostname: rabbit
 image: rabbitmq:latest
 environment:
  RABBITMQ_DEFAULT_USER: admin
  RABBITMQ_DEFAULT_PASS: mypass
  SERVICE_PORTS: 5672
  TCP_PORTS: 5672
	broker_url = amqp://admin:mypass@rabbit:5672