



Annual Stormwater Inspection Training Workshop

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Planned Presentation Contents:

- Short introduction to the City of Richmond & our group/
program
- Key Components of Inspecting the Industrial Facility BNSF
Railroad Maintenance Yard
- Questions & review

Richmond, CA





A little about the City of Richmond's Environmental Compliance Group. . .

- Responsible for:
 - Industrial Pretreatment Program (IPP) pursuant to NPDES Permit No. CA0038539
 - Industrial Wastewater Discharge Compliance
 - Commercial/ Industrial Fats, Oils, Grease (FOG) Compliance
 - Education/ Outreach
 - Stormwater Management & Compliance pursuant to the SF Bay Region Municipal Regional Stormwater NPDES Permit (MRP) No. CAS612008
 - All of the MRP's Provisions (e.g. C.3, C.4, C.5, C.6, C.7)
- More and more each day. . .

Inspectors generally wear multiple hats each with particular responsibilities





Stormwater Program

- The city's stormwater program seeks to maintain a healthy aquatic environment by keeping pollutants out of the storm drain system, creeks, and the bay. The program strives to reduce trash and pesticide use, engage residents, and educate businesses on practices to reduce or eliminate pollutants in our water bodies.
- Utilizes Richmond Municipal Code (RMC) Chapter 12.22 - STORMWATER MANAGEMENT AND DISCHARGE CONTROL



Our group issues Stormwater Compliance Permits to select Commercial and Industrial facilities based on site-specific criteria authorized by our Municipal Code:

RMC 12.22.090 - Best management practices and standards.

(a) . . . **The City reserves the right to permit facilities that potentially contribute pollutants to stormwater. . .**

FOR EXAMPLE. . .

STORMWATER PROGRAM

CITY OF RICHMOND

450 Civic Center Plaza
 Richmond, CA 94804
 Phone: 510-620-6594 Fax: 510-307-8195
 http://www.ci.richmond.ca.us/stormwater

2016 - 2019

SW16-00486



COMPLIANCE PERMIT

Business Address:
BURLINGTON NORTHERN SANTA FE
980 HENSLEY ST BLDG 417

Parcel APN: 561-390-005-8	Today's Date: 03-01-2016
Permit: SW16-00486	Date Issued: 07-01-2016
Type of Business: TRANSPORTATION	Expiration Date: 06-30-2019
WDID Number: 2 071012998	
PROPERTY OWNER: UNKNOWN OWNER	Business Owner: BURLINGTON NORTHERN SANTA FE
Street Address: 303 S GARRARD BLVD	Mailing Address: 980 HENSLEY ST BLDG 417
City/St/Zip: RICHMOND, CA 94801-2000	City/St/Zip: RICHMOND CA 94801 Business License:
Owner Phone:	Daytime Phone: Exp:

In accordance with Chapter 12.22 Richmond Municipal Code (RMC), the above named business is authorized to discharge uncontaminated stormwater to the City's stormwater collection system, subject to the terms and conditions below.

COMPLIANCE REQUIREMENTS

I. The Permit Holder is prohibited from:

(RMC 12.22.060)

- (a) Releasing non-stormwater discharges to the City stormwater system and watercourses.
- (b) Discharging stormwater from premises or activities that causes or contributes to a violation of receiving water limitations in the City's NPDES permit is prohibited.

II. The Permit Holder shall implement *Best Management Practices and Standards* as follows:

(RMC 12.22.090)

- (a) **Generally.** Any person owning or operating premises that may contribute pollutants to the City's stormwater system shall undertake all practicable best management practices to reduce the potential for pollutants entering the system. Examples of such premises include, but are not limited to, parking lots, gasoline stations, industrial facilities, and other commercial enterprises.
- (b) **Litter.** No person shall throw, deposit, leave, keep or permit to be thrown, deposited, placed, left or maintained, any refuse, rubbish, garbage or other discarded or abandoned objects, articles or other litter in or upon any street, alley, sidewalk, business place, creek, stormwater system, fountain, pool, lake, stream, river or any other body of water, or upon any public or private parcel of land so that the same might become a pollutant, except in containers or in lawfully established waste disposal facilities.
- (c) **Sidewalks.** The occupant or tenant, or in the absence of occupant or tenant, the owner or proprietor of any real property in front of which there is a paved sidewalk shall maintain said sidewalk free of dirt or litter to the maximum extent practicable. Sweepings from the sidewalk shall not be swept or otherwise made or allowed to go into the gutter or roadway, but shall be disposed of in receptacles maintained as required for the disposal of solid waste.
- (d) **Parking Lots, Paved Areas and Related Stormwater Systems.** Persons owning, operating or maintaining a paved parking lot, the paved areas of a gasoline station, a paved private street or road, and related stormwater systems shall clean those premises as frequently and thoroughly as practicable in a manner that does not result in the discharge of pollutants to the City's stormwater system.
- (e) **Compliance with Best Management Practices.** Where best management practices (BMPs) guidelines or requirements have been adopted by any federal, state, regional, city or county agency, for any activity, or operation of premises which may cause or contribute to non-stormwater discharges, every person undertaking such activity, operation or owning and operating such premises shall comply with such guidelines or requirements. Failure to implement and maintain Best Management Practices (adopted from the California Stormwater BMP Handbook, January 2003) included in a storm water permit Stormwater Pollution Prevention Plan (SWPPP) are subject to administrative citations.



REPORTING REQUIREMENTS

The Permit Holder shall report to the City of Richmond - Stormwater Program any changes to the premises or operations that significantly deviate from the terms and conditions of this Permit. The Permit Holder shall notify City of Richmond - Stormwater Program at (510) 307-8135 during business hours, or Police Dispatch at (510) 620-6933 during non-business hours, immediately upon discovering any spill or non-stormwater discharge to the stormwater sewer. Formal written notification describing the circumstances and corrective action must be submitted to the City before the next rain event but no longer than ten business days of the occurrence.

AUTHORIZATION

The terms and conditions of the permit may be subject to modification by the City during the term of the permit as requirements are modified or other just cause exists. This permit shall not be reassigned or transferred or sold to a new owner, new user, different premises, or a new or changed operation without prior written approval by the City. The permittee shall be notified of any proposed changes in this permit at least 30 days prior to the effective date of such changes.

INSPECTIONS

The City of Richmond may conduct routine random, announced and/or unannounced inspections to verify compliance with the conditions of this Permit as authorized by the City Ordinance, Article 12 Chapter 22.110.

ENFORCEMENT AND PENALTIES

The City of Richmond will pursue enforcement and penalties as authorized by the City Ordinance, Article 12 Chapter 22.120 -140.


 Joanne Le
 Source Control Superintendent

How to approach a BNSF Stormwater Site Inspection?



Source: TheGuardian.com



Step 1: Review historic inspections, records, etc.

Potential Resources:

- **Written inspection records**
 - Reports, enforcement actions, documents, letters, notes, etc.
- **SMARTS**
 - SWPPP, Operations, BMPs, Discharge Points, etc.
- **City GIS Records & Maps**
 - MS4 connection point
- **Online Public Mapping**
 - You never know what you might find. . .



Step 1: Review historic inspections, records, etc.

- Our group utilizes a City-Wide electronic reporting software, CRW_TRAKiT

The screenshot displays the TRAKiT - PermitTRAK application window. The interface is divided into several sections:

- Left Panel (Tree View):** Shows a hierarchical tree structure under 'Permit SW16-00486', including 'Parent Activities', 'No Sub-Permits', 'No Sub-Cases', and 'No Issues'.
- Top Panel (Permit Information):** Displays key details for Permit #: SW16-00486:
 - Description: BURLINGTON NORTHERN SANTA FE
 - Applicant: BURLINGTON NORTHERN SANTA FE
 - Type: STORMWATER
 - Subtype: C4 IND/COM SITE INSPECTION
 - Status: ISSUED
 - Applied: 07/01/2016 (SW)
 - Approved: 07/01/2013 (JL3)
 - Issued: 07/01/2016 (JL3)
 - Expiration: 06/30/2019 (JL3)
- Address and Assessor Information:**
 - Assessor PIN: 561-390-005
 - Address: 980 HENSLEY ST, BLDG 417
 - City, State, Zip: RICHMOND, CA, 94801-2000
 - Type: PARCEL
 - Owner: UNKNOWN OWNER
- Main Menu (Bottom Left):** A vertical list of application modules including WorkSpace, LandTRAK, PermitTRAK (highlighted), ProjectTRAK, CodeTRAK, AEC TRAK, LicenseTRAK, CRM TRAK, and Reports.
- Summary Section (Bottom Right):**
 - Contacts (7): Owner: UNKNOWN OWNER, Contractor: <none>, Applicant: BURLINGTONNORTHERN SANTA FE
 - Valuation Details: Job Value: \$0.00
 - Financial Information: Charged: \$0.00, Paid: \$0.00, Due: \$0.00, Deposits Avail: \$0.00
 - Plan Reviews
 - Conditions
 - Inspections (3)
 - Chronology (1)
 - Custom Screens (4)

The status bar at the bottom indicates the user is MAXWELL POTTER and the database is CRW_NET. The version is TRAKiT RELEASE 2016.7.1.1.

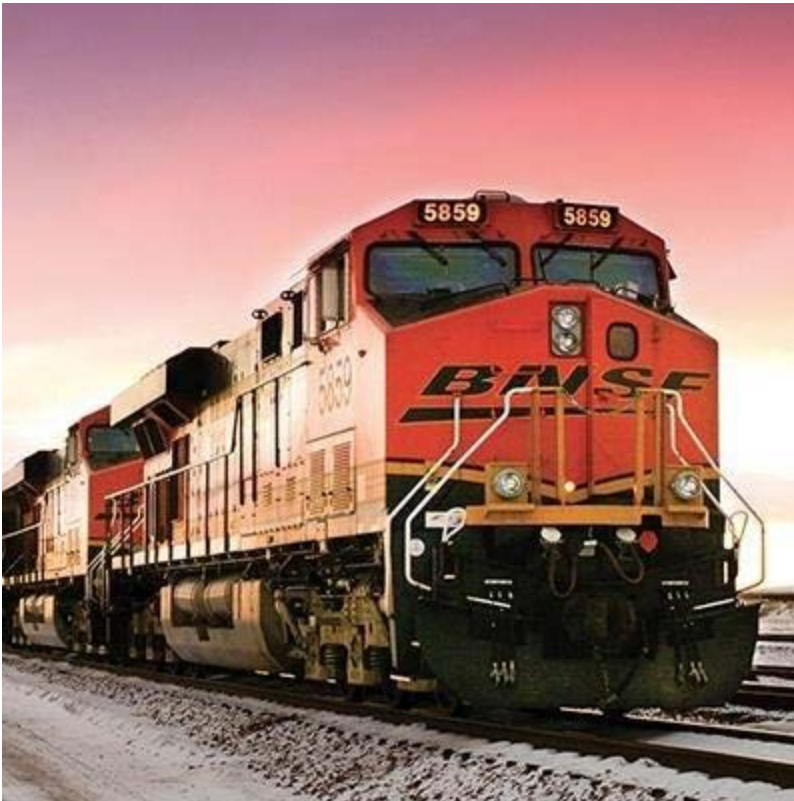


Image Source: Indeed.com

Burlington Northern Santa Fe Richmond Railyard

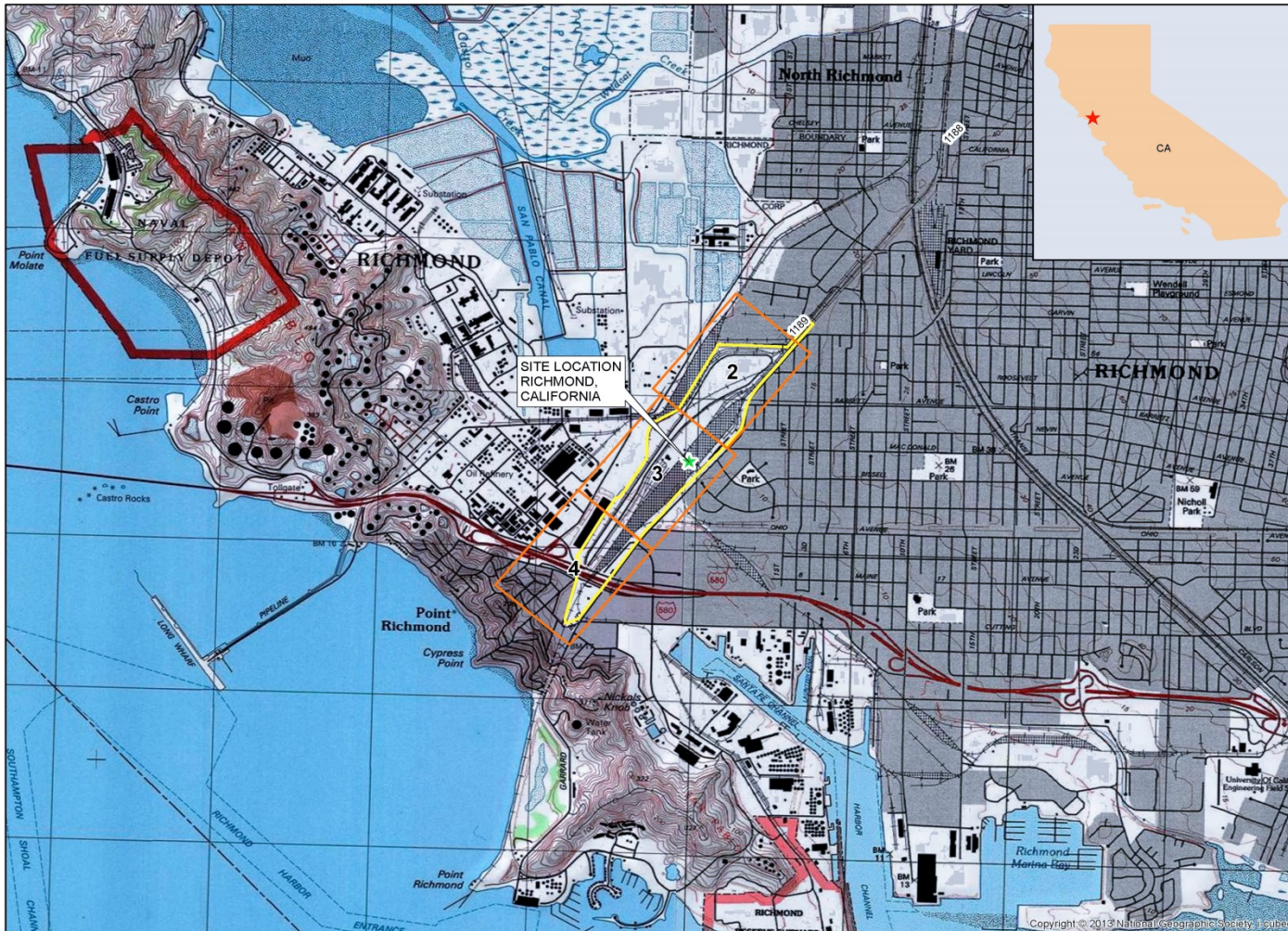
- Location: 980 Hensley St, Richmond, CA 94801
- NOI Facility WDID #: 2 07I012998
- SIC Classification: 4011, 4013
- Primary Operations: Railroads, Line-Haul Operating; Railroad Switching and Terminal Establishments
- Site Contact: Eddie Phillips



Step 2: Review SMARTS via Public User Domain

General Operations and Facility Description:

- The 162.5-acre Facility is a rail switchyard that conducts fueling of locomotives and maintenance of railcars and locomotives.
- The Industrial Activity Areas (IAAs) associated with these activities cover approximately 5.0 acres, with approximately 95 percent of that area being impervious surface (e.g., concrete, asphalt, or buildings).
- The Facility conducts normal operations 24 hours a day, 7 days a week, and maintains a staff of approximately 30 employees.



SWPPP SITE PLAN
BNSF RAILWAY
RICHMOND RAILYARD
RICHMOND, CA

LEGEND

- BNSF TRACK
- BNSF MP
- DIRECTION OF SURFACE FLOW
- WETLANDS - USFWS, NWI
- LEASE (BNSF AS LESSOR)
- BNSF ACTIVE ROW
- FACILITY BOUNDARY

ACTIVITY TYPE

INDUSTRIAL

- FA - FUELING ACTIVITY
- MA - MAINTENANCE ACTIVITY
- SA - STAGING ACTIVITY
- CW - CLEANING AND WASHDOWN ACTIVITY
- LU - LOADING/UNLOADING ACTIVITY
- PS - PROCESSING/STORAGE ACTIVITY

STORAGE OR VESSEL

INDUSTRIAL

- A - ABOVEGROUND STORAGE TANK
- U - UNDERGROUND STORAGE TANK
- DS - DRUM STORAGE
- MS - MOBILE STORAGE
- HW - HAZARDOUS WASTE
- PS - PROCESSING OR STORAGE
- SP - STOCKPILED EARTHEN MATERIAL
- ST - SAND TOWER
- M - MACHINERY
- W - WASTE

SITE LOCATION MAP

FINAL 11/8/2017

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1 inch = 2,000 feet

N

0 1,000 2,000 4,000 ft

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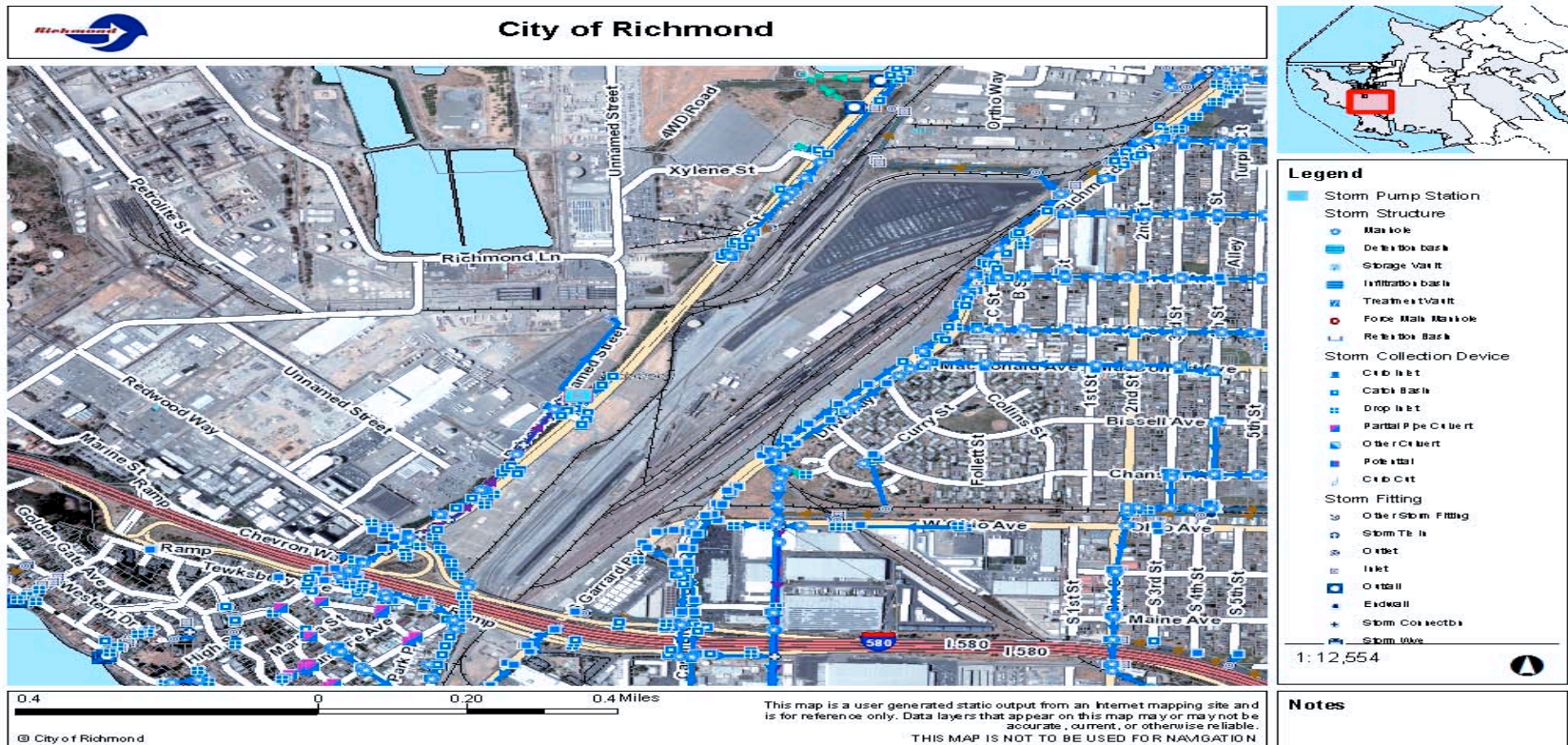


Step 2: Review SMARTS via Public User Domain

- Site Operations, map(s) & discharge locations
 - ❑ BNSF discharges into City's MS4 via two locations
- Potential pollutants on-site
 - ❑ Sediment, petroleum products (e.g., fuels, oils, and grease lubricants), and metals (copper, iron, nickel, and zinc)
- Active site-specific Best Management Practices (BMPs) for pollution prevention

Step 3: Review City GIS documents and maps

- No direct drain inlets within immediate drainage pattern of facility
- Waterway along northern perimeter of facility





Preparation for inspection:

- Scheduled/ unscheduled inspection (pros vs. cons)
- Print out pertinent documents
 - ❖ Site inspection form pre-filled out (e.g. site contact, property owner, etc.)
 - ❖ Site maps, inspection records, SMARTS data, Municipal Code
- Sampling kit
 - ❖ Hopefully you will not need it. . .



Site Inspection:

Question:

- What is the PRIMARY goal of your inspection?

Answer:

- To ensure compliance with local Municipal Code(s) & Regulations . . . and State/ Federal Regulations

Problem:

- Sifting through Industrial General Permit (IGP) vs. local Municipal Code(s) Regulations and requirements



City of Richmond



Legend

- Storm Pump Station
- Storm Structure
 - Manhole
 - Detection basin
 - Storage Vault
 - Infiltration basin
 - Treatment vault
 - Force Main Manhole
 - Retention Basin
- Storm Collection Device
 - Curb Inlet
 - Catch Basin
 - Drop Inlet
 - Partial Pipe Culvert
 - Other Culvert
 - Potential
 - Curb Cut
- Storm Fitting
 - Other Storm Fitting
 - Storm Tee
 - Outlet
 - Inlet
 - Ordnail
 - Endwall
 - Storm Collector
 - Storm Valve

1:12,554

0.4 0 0.20 0.4 Miles

© City of Richmond

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Notes

IGP requirements DOES NOT EQUAL Municipal Stormwater Inspector requirements



Site Inspection:

- Document review
 - Spill Prevention, Control and Countermeasure (SPCC) Plan, training records, hazardous waste manifests, chemical SDSs on-site)

- Signs of spills & illicit discharges
 - Visually inspect stormwater drain inlets, catch basins, and manholes (if safe and possible)

- Site BMP implementation
 - Confirm upkeep and adequate maintenance

- Discharge locations for signs of illicit discharge

Documentation & Follow-Up:

- Closeout inspection meeting
 - Identify any issues, violations, follow-up items
- Submit inspection report to correct personnel
- Record inspection notes, photos, documents for future inspection(s)





THANK YOU

QUESTIONS ?

