

# Sampling and Reporting: Mid-Year Review with SWRCB

Presented by **mapistry** 



### INTRO

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GUESTS



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#### **OVERVIEW**

- ✓ Sampling review
- ✓ Recordkeeping
- ✓ SMARTS submittal
- ✓ Sampling stats
- ✓ NAL trends
- Problem areas
- Questions





# SAMPLING AND ANALYSIS

### SAMPLING OBSERVATIONS

- ✓ source?
- corrective action?
- ✓ BMPs?
- ✓ responsible person
- ✓ records



### SAMPLING OBSERVATIONS

i mapistry	Industrial		
Sections Inspection Info Storm Info		Sampling Observations  Indicates required field	Chat with us! ~
☑ <del>▼</del> Sampli ☑ 0-1	<b>ng Observations</b> mwater Discharge s	Sampling Location * O-1 Are odors present? * No Floating material present? * No Suspended material present? * No Sheen (oil & grease) present? * No Is the discharge discolored? * No Is the discharge turbid? * No V	
		What is the server of surrelationsiss?	

## CORRECTIVE ACTIONS



#### SAMPLING PLANNING

- ✓ lab/bottles
- ✓ schedule courier
- team members (notifications)
- sampling kits bottles, cooler, ice, COCs, and labels
- ✓ gloves
- ✓ pH meter (calibrated)
- map for sampling locations



### SAMPLING LOCATIONS

- manholes
- catch basins
- outfalls
- ✓ sheet flow
- ✓ ditches

# **RIGHT LOCATION?**

CC Image courtesy of MD Dept of Env

### END OF PIPE

CC Image courtesy of MD Dept of Env

## SAMPLE COLLECTION

✓ End of pipe✓ Grab samples





### SAMPLE KIT

- **/** gloves
- pH meter/litmus paper
- COC and labels
- containers
- decon (liquinox and DI water)
- pole/duct tape
- marker and pen
  - cooler with ice
  - bucket (carry equipment)
  - / map
- inspection app/forms



#### ANALYSES

- ✓ CA IGP analyses
  - 0&G,
  - TSS, and
  - рН
- Additional parameters based on SIC code

### pH ANALYSIS

- ✓ indicator parameter of acidic and alkaline pollutants
- clean container with no preservative
- ✓ analyze within 15 minutes (CA IGP requirement)
- ✓ field pH meter (calibrated)
- litmus paper

## TOTAL SUSPENDED SOLIDS (TSS)

- ✓ via SM 2540D (gravimetric)
- measure of undissolved material



## O&G SAMPLING

- ✓ collect via grab sample
- container with preservative
- adheres to automatic sampler
- measure of non-volatile
   hydrocarbons (animal fats, vegetable oil, etc.)



### MONITORING RECORDS

- date, location and time of sampling
- date of analyses
- individual performing analysis
- analytical techniques/methods
- ✓ analytical results

### SWRCB Perspective

- ✓ Facilities in SMARTS
- Sampling results to date
- ✓ Exceedances
- Facilities not sampling (or not submitting results)

### SWRCB SMARTS STATS

- ✓ NOI 8,678
- ✓ NEC 1,779
- ✓ NONA 134
- ✓ Total: 10,591

### SMARTS TO DATE

### ✓ 8,678 NOI

### ✓ ~1,200 Facilities with sample data

### ~14% of facilities sampled

### SWRCB SMARTS STATS

Parameter	Average NAL (aNAL) mg/L	Instaneous NAL (iNAL) mg/L	Samples	Facilities	# Samples Over NAL	Over NAL
рН	NA	6 to 9	4,457	~1,200	iNAL 169 under 6.0 53 over 9.0	3.8% 1.2%
TSS	100	400	4,400	~1,200	aNAL – 745 iNAL – 168	16.9% 3.8%
O&G	15	25	3,401	~1,200	aNAL – 151 iNAL – 81	4.4% 2.4%

### SWRCB SMARTS STATS

Parameter	Average NAL (aNAL) mg/L	Samples	Facilities	# Samples Over NAL	Over NAL
Al	0.75	945	~300	407	43%
Cu	0.0332	639	~170	290	45%
Fe	1.0	1,317	~360	679	52%
Pb	0.262	690	~210	18	2.6%
Zn	0.26	1,191	~350	557	47%

# SOME COMMON QUESTIONS

???????



I exceeded the instantaneous NAL for TSS on two occasions

#### Questions

- ✓ Who are the QISPs?
- ✓ Where can I find a list of QISPs?

#### Sampling

 What do I do if some of my discharge locations do not have enough flow to sample?

 Do I need 4 QSEs from every discharge location or if I only sample 1 of 2 locations does that count as 1 QSE?

#### Sampling

 How should I collect samples from sheet flow on concrete or pavement? Can I use a dust pan?

✓ Can I use a container on a pole to collect samples from a catch basin? Is that a problem with O&G?

#### Non Compliance

Is it too late to file a Notice of Intent (NOI)?

✓ What will the Water Board do?

#### Non Compliance

What happens if I did not sample 2 Qualified
 Storm Events (QSE)s in July to December?

Should I sample 4 QSEs during January to June?

#### Annual Report

✓ When do I have to file the annual report?

Do I have to submit my inspection forms?

Do I need a QISP to file my annual report?

# **QUESTIONS?**







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