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CASA – Wipes Collection Study

26 March 2024

APPENDICES

Prepared for

California Association of Sanitation Agencies

925 L Street, Suite 200 Sacramento, California 95814

KJ Project No. 23680008*00

Acknowledgements

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- Lara Wyss of **The Responsible Flushing Alliance** was an invaluable contributor to the study development. Her positive attitude and enthusiasm for educating consumers about responsible flushing habits helped keep the team focused on the end users of this research.
- Inland Empire Utilities Agency and its staff accommodated on-the-ground changes and supported the needs of the research team despite the disruption to their already busy schedules.
- Central Contra Costa Sanitary District was generous with its time and facilities and were clearly passionate about providing its ratepayers information on how the District keeps their sanitary system operating effectively.
- Experts from four INDA member companies Kimberly-Clark, Procter & Gamble, Rockline Industries, and Sellars Nonwovens – generously shared their extensive nonwovens, collection study expertise, and time in the planning and safe execution of this Study.

The support and assistance of these organizations have been instrumental in the success of the Study. We are deeply grateful for their contributions.

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Data Collection Log

Data Collection Log

Inland Empire Utilities Agency

October 11, 2023 – Morning Collection

AB818 Wipes Collection Event Record Log

Agency Name	INCAND EMPIRE
Sampling Facility	RP-4
Sampling Location	
Date	11th october 2023
Flow	12 MED (Start Sam)
Collection Start Time	8 am
Collection End Time	2 pm

	Print Name	Sign
Agency	MICHAEL DIAS	12: 83
INDA	Wes Fisher	defi
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Articles highlighted reassigned from SED to Paper.

DP. 10.12. 2023

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Kennedy Jenks

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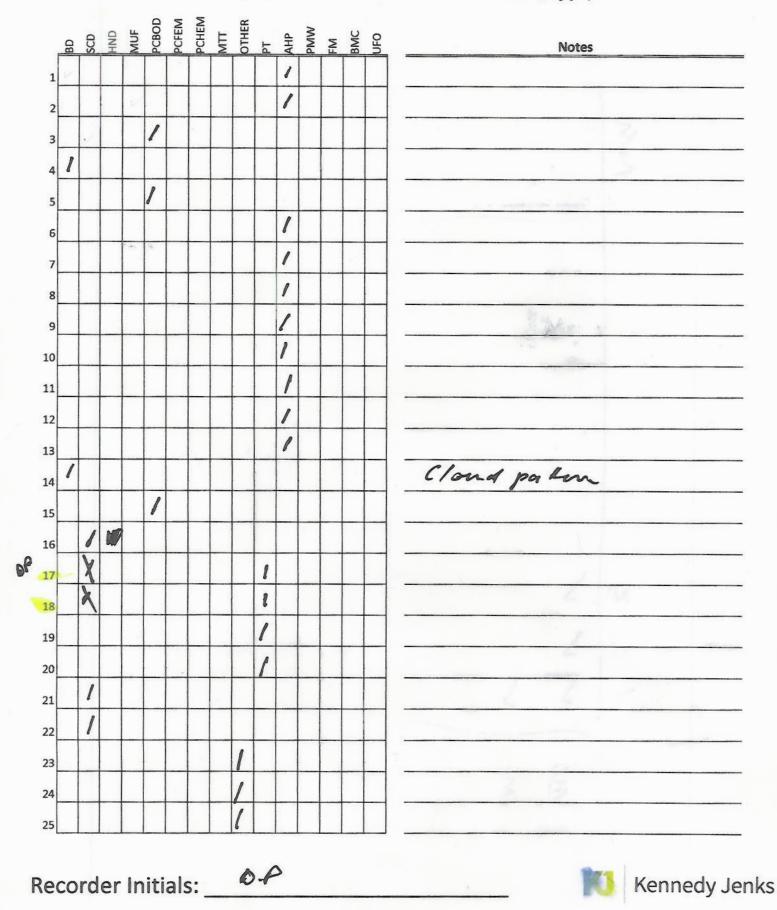


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Date: 11th Octoker 2023 RM Day 1 AM, Day 1 PM, Day 2 AM

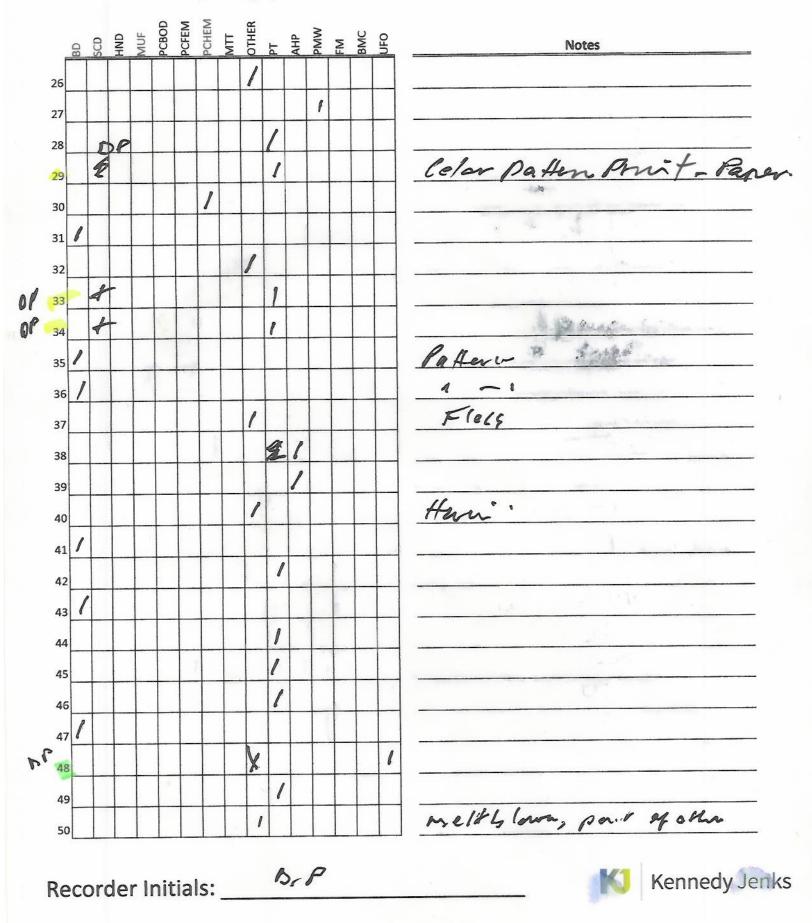
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Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

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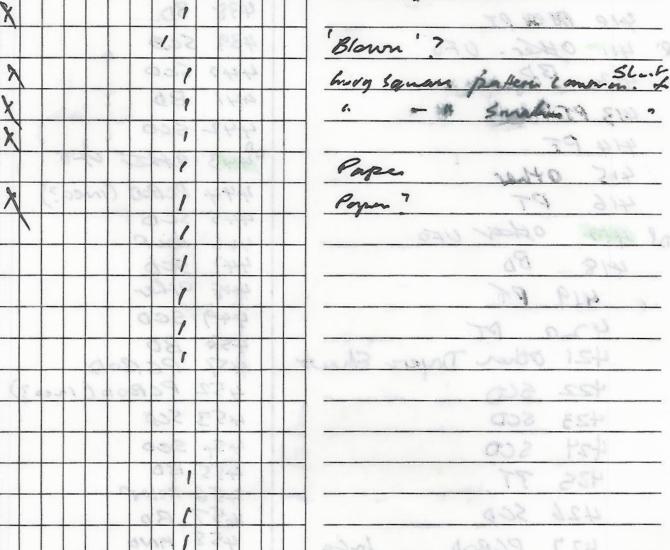
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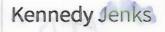
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419 PT 420 PT 421 Other Dryer Sheet 422 SCD 423 SCD 424 SCD 425 PT 426 SCD 427 PCBOD Inco 428 SCD	448 OKR 449 SCD 458 BD 457 PCBOD 452 PCBOD (Inco?) 453 SCD 453 SCD 454 SCD 455 BD 456 MUF 457 BD 458 HND 458 HND 459 PCBOD 460 MUF

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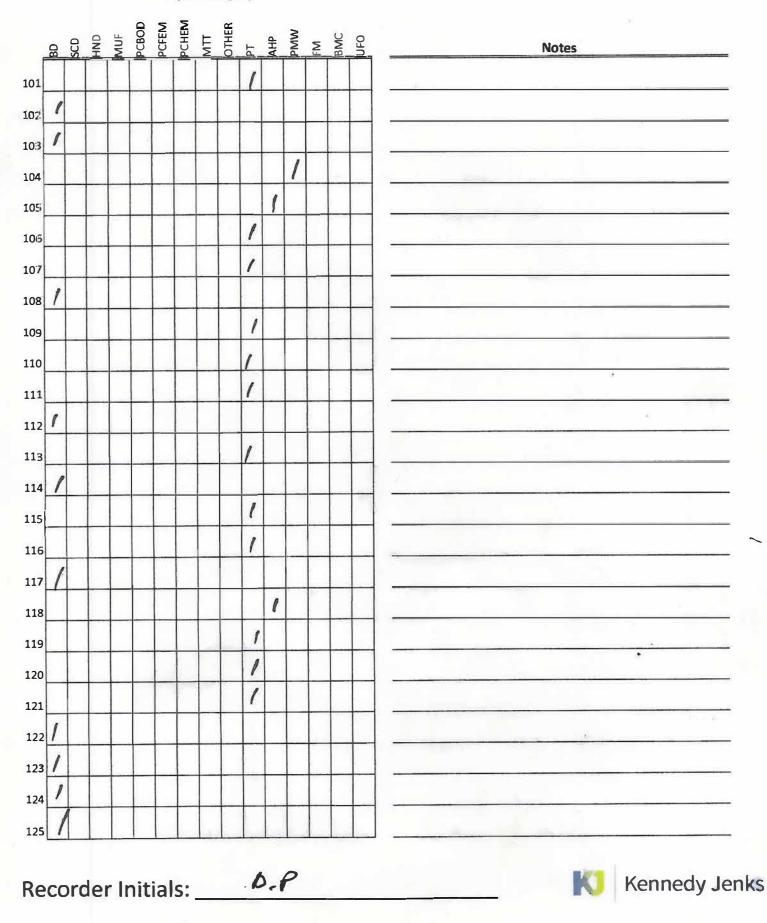
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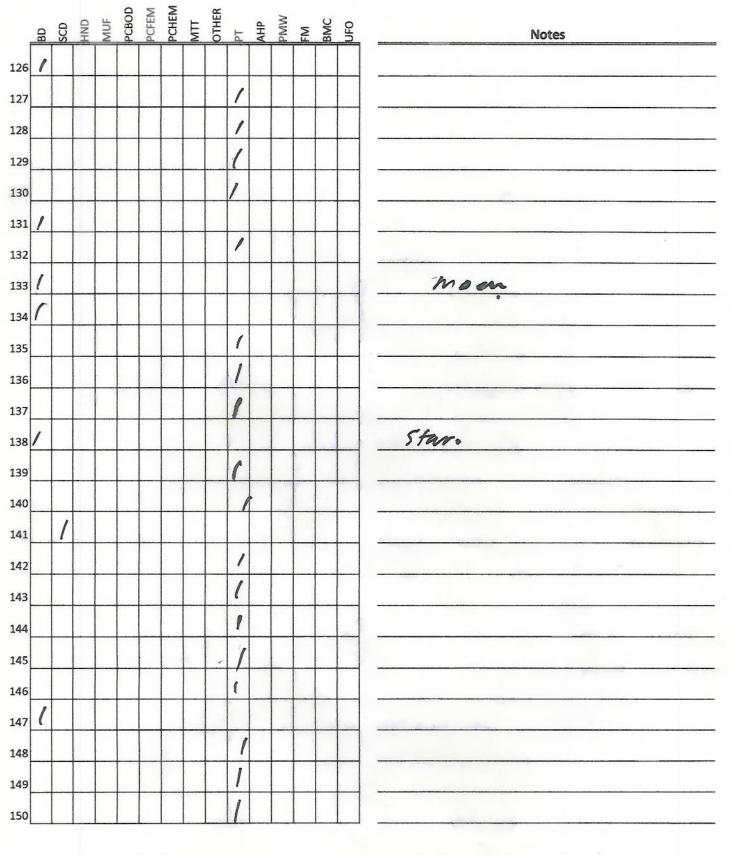
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Wipes Category



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Wipes Category





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Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

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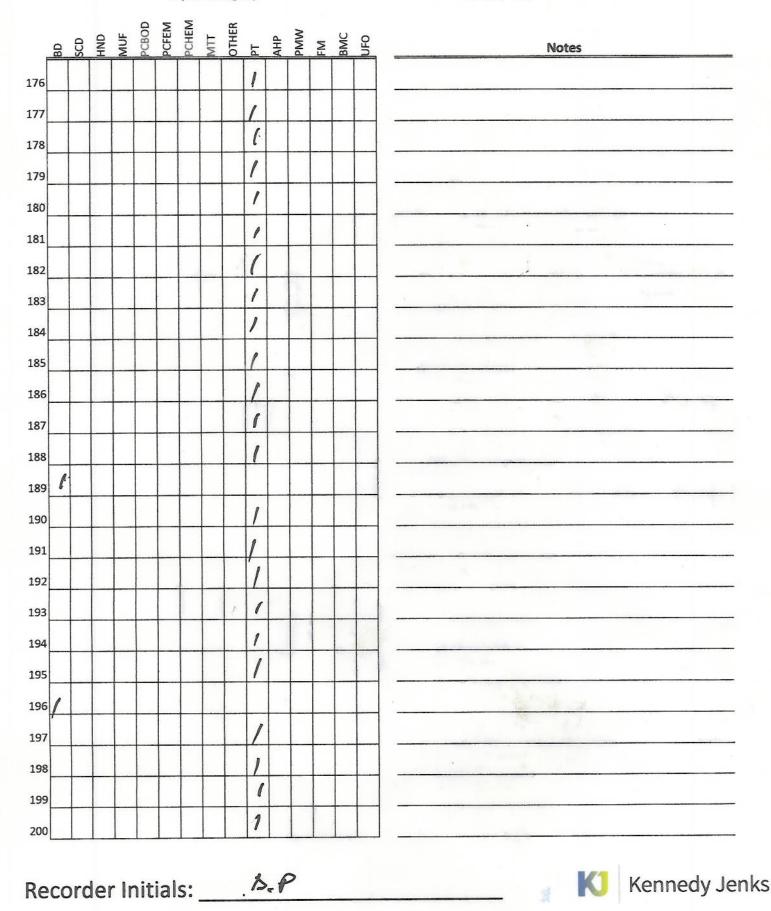
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Kennedy Jenks

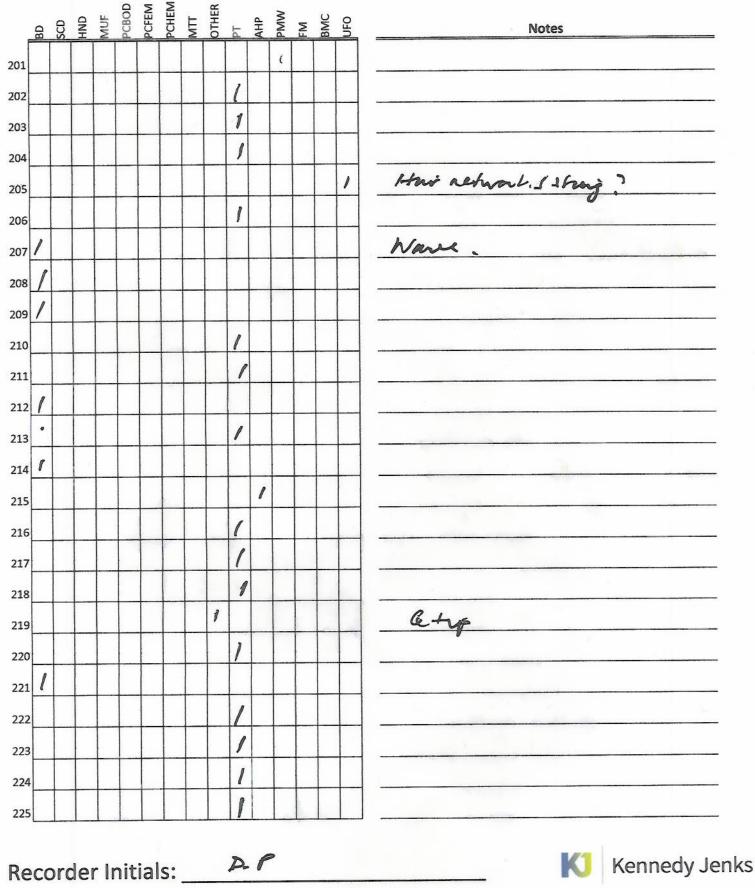
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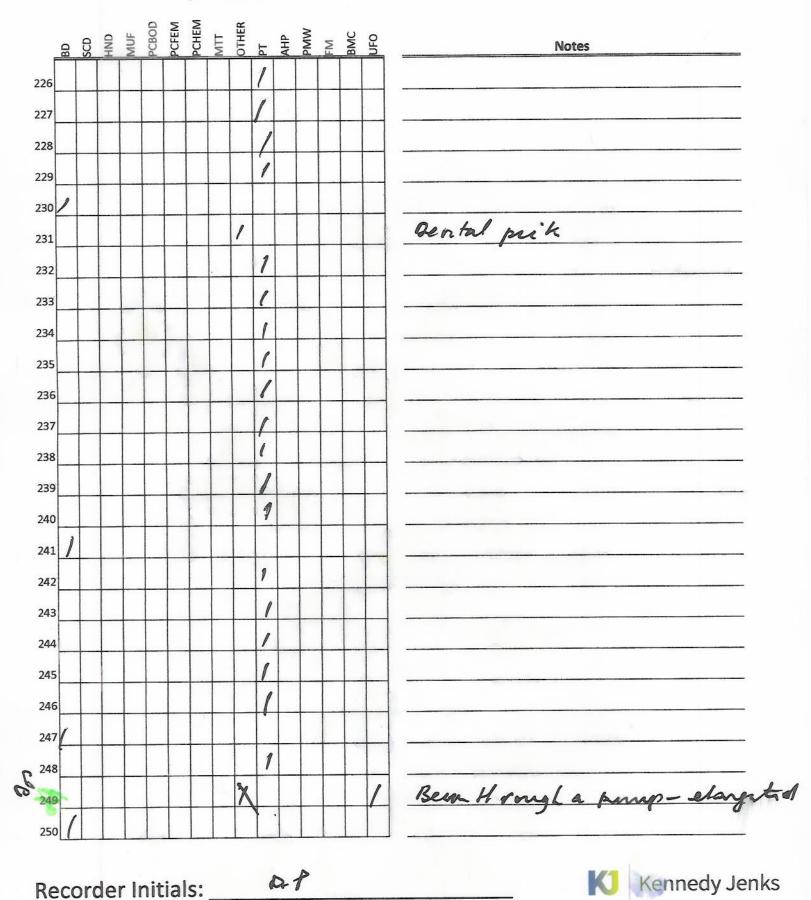
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Date: 11H October 2013 Collecter # 1

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Date: 11 M October 2023 Collection Event (Circle one): Day 1 AM, Day 1 PM, Day 2 AM Collection # 1

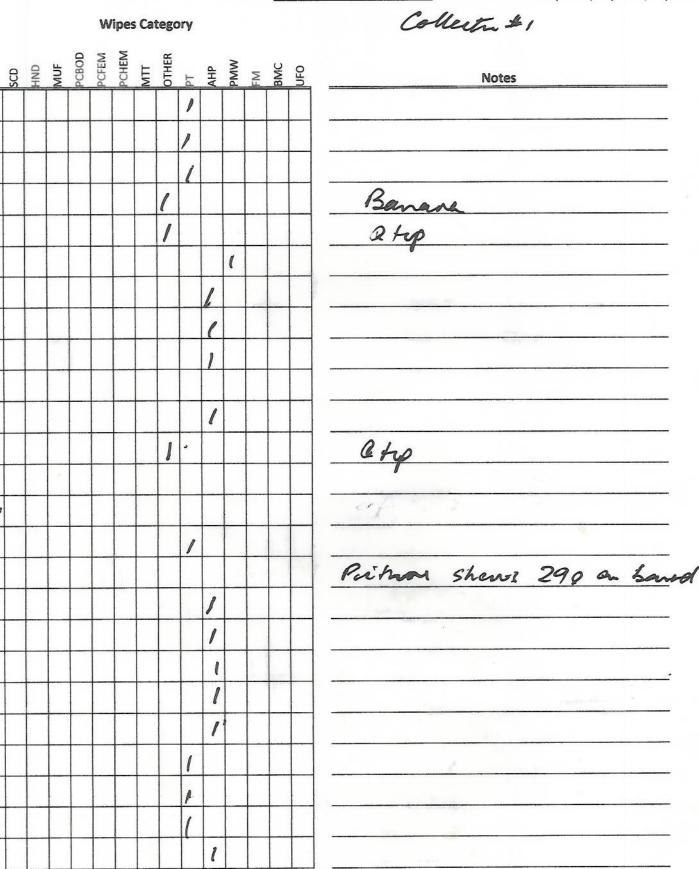
Wipes Category

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Date: 11th October 2023

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category



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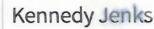
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Collection Event (circle one):

Date: Cot 11th 2023 Inland Emperi Collecter #1 Appendix A Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM Goto Wipes Category RA SCD HND MUF PCFEM PCFEM MTT MTT OTHER PT PMW FM BMC UFO on sleds tor samples B Notes Q typ Print Color. P 1, D-P Recorder Initials: Kennedy Jenks

Data Collection Log

Inland Empire Utilities Agency

October 12, 2023 – Morning Collection

AB818 Wipes Collection Event Record Log

Agency Name	Inland Empiri
Sampling Facility	RF-4
Sampling Location	6th Street
Date	October 12th 2023
Flow	11.7 MED
Collection Start Time	Sam
Collection End Time	12:10

Recorde	ed Data Approval	
	Print Name	Sign
Agency	MICHAEL DIAS	mi dis
INDA	Wes Fisher	LUT
CASA	Spencer Saks	1sn

Kennedy Jenks

Name	Affiliation (CASA, INDA, Agency)	Role
David Powhig (kc)	1NOA	SORT + Court
MICHAEL DIAS	IEUA	AGENLY
Spencer 5-KS	CASA	
Rob Heglin	INDA	Sort & Count
Wes Fisher	INDA	Sory + Coun
MATT, O'SICKOY	INDA	Sover & Conv
Matt Kale	TNOA	Cleany Wipes
Mara Wyss	RFA	Photographer Sort & Count
MATT, O'SICKOY Matt Kale Relara Wyss Mihe Paschka	INDA	Sort & Count
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Date:

Bha 10/12/2023

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Appendix A

Date: 10/12/23

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

Collection H2 IEUA RPU

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Recorder Initials: <u><u><u>A</u></u></u>

Appendix A

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Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

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Date: 10/12/23 Co Keeter #2

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

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Date: 10/12/23 Collectin#2

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

PCBOD MUF DNH

PCFEM PCHEM MTT OTHER PT AHP PMW FM BMC

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D.P.

IEUA RP-4

Notes Ported Torrel

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Recorder Initials:

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					Q	Σ	Σ		æ							Collection Event (circle Day 1 AM, Day 1 PM, Day Collectin HZ IEVA RP-4
	BD	scD	QNH	MUF	PCBOD	PCFEM	PCHE	MTT	OTHE	РТ	AHP	PMW	FM	BMC	UFO	Notes
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127										1						
128	1															
129	1															
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Date: 10/12/23 Collection Event (circle one): Appendix A Day 1 AM, Day 1 PM, Day 2 AM Collector 2 Wipes Category IEUA RP-4 PCFEM PCHEM MIT PT AHP PMW FM BMC UFO SCD HND MUF PCBOD Notes Very fine, this, have fiber. Wipi 547 Soft, cheese heles, ļ Creex fold Path Recorder Initials: 0.P Kennedy Jenks

Appendix A

Date: 10/12/23 Colletn 2

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

IEUA RAY

B-P

Notes . miss of this - Streker Rand Refe.

Kennedy Jenks

Appendix A

Date: 10/12/23 Coketri 2

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

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	BD	scD	DNH	MUF	PCBOD	PCFEM	PCHEM	MIT	OTHER	ΡŢ	AHP	PMW	FM	BMC	Jufo	Notes
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						W	ipes	s Cat	tego	ory						Celletin 2 IEUA RP4
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D.P Recorder Initials:

Kennedy Jenks

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8	BD	scD	QNH	MUF	PCBOD	PCFEM	PCHEM	TTM	OTHER	PT	AHP	MMd	FM	BMC	UFO	Notes
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Appendix A

Wipes Category

Date: 10/12/23 Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM IEUA, RPC4

Collection Event (circle one):

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Kennedy Jenks

App	end	dix	A									Da	te	:		10/12/2023 Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM
						W	ipe	s Cat	tego	ory						Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM Collectu Z IEUA RPL4
	BD	scD	DNH	MUF	PCBOD	PCFEM	PCHEM	MTT	OTHER	μ	AHP	PMW	FM	BMC	UFO	Notes
326		1														
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					W	ipes	s Cat	tego	ory						IEUA RPU
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Appendix A

Wipes Category

	Jen	di										Da	ate):		Collection Event (circle o Day 1 AM, Day 1 PM, Day 2
						W	ipe:	s Ca	tego	ory						Collection Event (circle o Day 1 AM, Day 1 PM, Day 2 CZ EUR RP4
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Data Collection Log

Central Contra Costa Sanitary District

October 18, 2023 – Morning Collection

AB818 Wipes Collection Event Record Log

Agency Name	CCCSD	
Sampling Facility	5919 Imhoff Place	
Sampling Location	5019 Inhoff Place Leadworks. From ban Screens 1+2	9
Date	10/17/2023	11
Flow		
Collection Start Time	11:45 am.	
Collection End Time	12:05 mm	

Record	ed Data Approval	
	Print Name	Sign
Agency	ALAN WEER	Alant. Mu
INDA	Matt O'Sickey	Matthew O'Sickey
CASA	Alyssa Downs	ATA



Kennedy Jenks

#1

Name	Affiliation (CASA, INDA, Agency)	Role
parvid Rowling (KC)	INDA	10 and Reco
Richard Goepel	Sellars	10 and Reco help help
Kpuja Hunter	Sellars	help
ALAN WEER	CCCSD	
niched Paschia (PSG)	INDA	Sort/Cart
MATT OSICKEY	INDA	SORT/COUNT
/		
		-

Date:

4

19/18/2023



Kennedy Jenks

Collection Event (circle one): Date: 10/17/23 Appendix A Day 1 AM, Day 1 PM, Day 2 AM CCCSD Collectia # 1 Wipes Category SCD MUF PCFEM PCFEM PCFEM MTT MTT PT PT PMW FM BMC UF0 õ Notes Dental prote / cleaner. Henry embers Sock tenr off ſ embors Meedle Purch, Wash Cloh cloud. D.P K Kennedy Jenks Recorder Initials:

Day 1 AM, Day 1 PM, D	tim # 1	Colle	101		au	L		-	-				-	xik	110
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Recorder Initials: <u>b P</u>

Kennedy Jenks

Date: 10/17/23 Collection #1 CCCSP Appendix A Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM Wipes Category SCD HND MUF PCFEM PCFEM MTT OTHER PT PMW FM BMC UFO Notes Butter wrapper. Morse Bryan Sheet Tanpa Tampa. TOP

Recorder Initials: 6 P

K Kennedy Jenks

Date: 10/17/23 Collection #1 Appendix A Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM Wipes Category CEESO PCFEM SCD HND MUF PCBOD OTHER PT AHP PMW FM BMC UFO TTM Notes 6x12 Body r F ĺ ſ Perfed paper, then so upi? Recorder Initials: Kennedy Jenks

						W	lipe	s Ca	tego	ory					Collection Event (circl Day 1 AM, Day 1 PM, Da CCCBD
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Date: 10/17/2023 Collecture 1

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

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Date: 10/17/23 Collection #1

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

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Collection Event (circle one): Appendix A Date: 10/17/23 Day 1 AM, Day 1 PM, Day 2 AM collectu #1 Wipes Category LLLSD PCBOD PCFEM PCHEM MTT PT PT PMW FM BMC UFO MUF Notes Perfect. Perfed center pull' Committer / perf. cloud Broken, Soft. l (

Recorder Initials: D. P

K Kennedy Jenks

Appen	dix	<u>A</u>			W	ipe	s Ca	tego	ory		Da	ite	°	/	0/17/23 Colletan #1 CCCSD	Collection Event (circle one Day 1 AM, Day 1 PM, Day 2 AM
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Date: 10/17/23 Collection #1 Collection Event (circle one): Appendix A Day 1 AM, Day 1 PM, Day 2 AM Wipes Category CLCSD PCHEM PCBOD PCFEM MTT OTHER PT AHP PMW FM BMC UFO SCD HND MUF Notes l Stronger Fr. £. (ľ Í ſ l

Recorder Initials: D. P

K Kennedy Jenks

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Appendix A

Wipes Category

Date: 10/17/2023 Colletra: #1

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

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Kennedy Jenks

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

Date: 10/17/23 Collectin #1 CCC50

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Appendix A

Wipes Category

Date: 10/17/23 Colletin #1

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

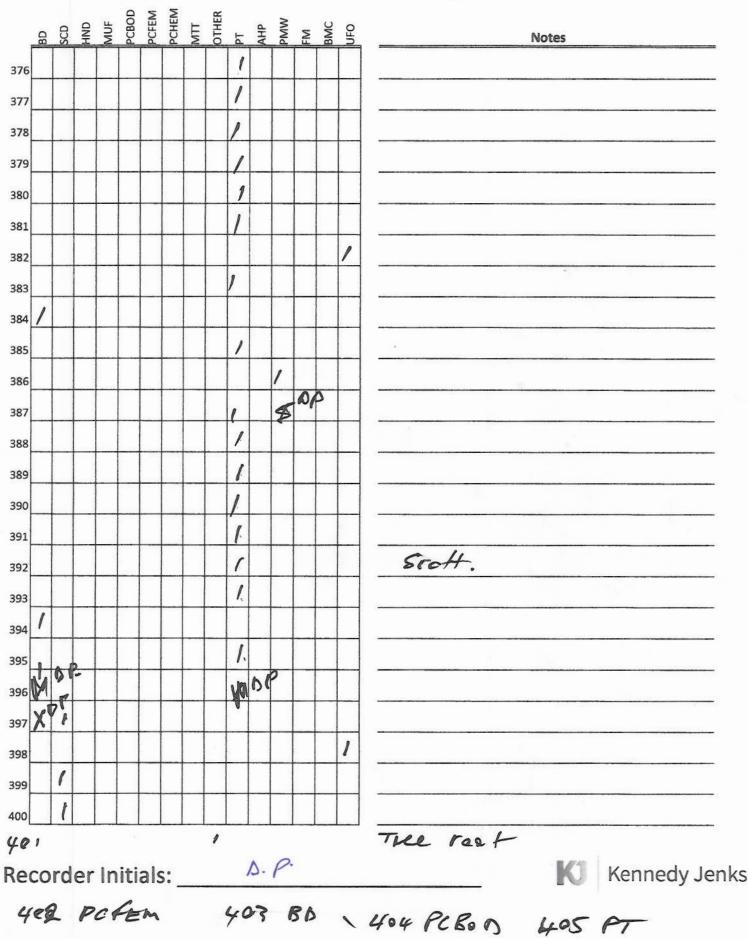
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Date: 10/17/23 Collehin #1 CCC50

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category



Data Collection Log

Central Contra Costa Sanitary District

October 18, 2023 - Nighttime Collection

Name	Affiliation (CASA, INDA, Agency)	Role
DANID ANCINE (BC	INDA	1D+ Count
Lara Wyss	RFA	ID + Count ID & Count
Kevin Hunter	Sellars	Helper
ALAN WEER	cccsd	48 7
Michael Parche (PLG)	AUNT	S.A + Lant
MATT OSICKEY	INDA	Sara/cant
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Date:

10/18/2023

Continuation Sheet

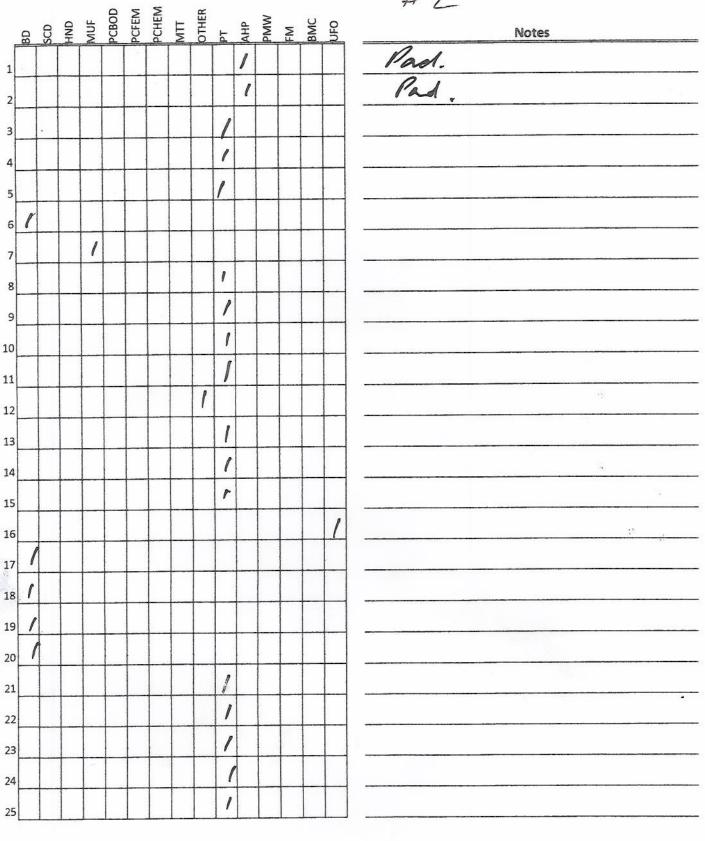
401 85 402 UF0 403 BB 404 BD. 405 BD. PT 406 407 SCD 408 B5. 409 BR. 410 PT 4/1 BQT 412 PT 413 PT 414 PT 415 PCBORD 416 SCB

Date: 10/18/2023 CCCSD #2

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

Kennedy Jenks



Recorder Initials:

OP

BD

Date: 10/18/2023 CCC SD # 2

Collection Event (circle one): Day 1 AM Day 1 PM, Day 2 AM

Wipes Category

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Notes

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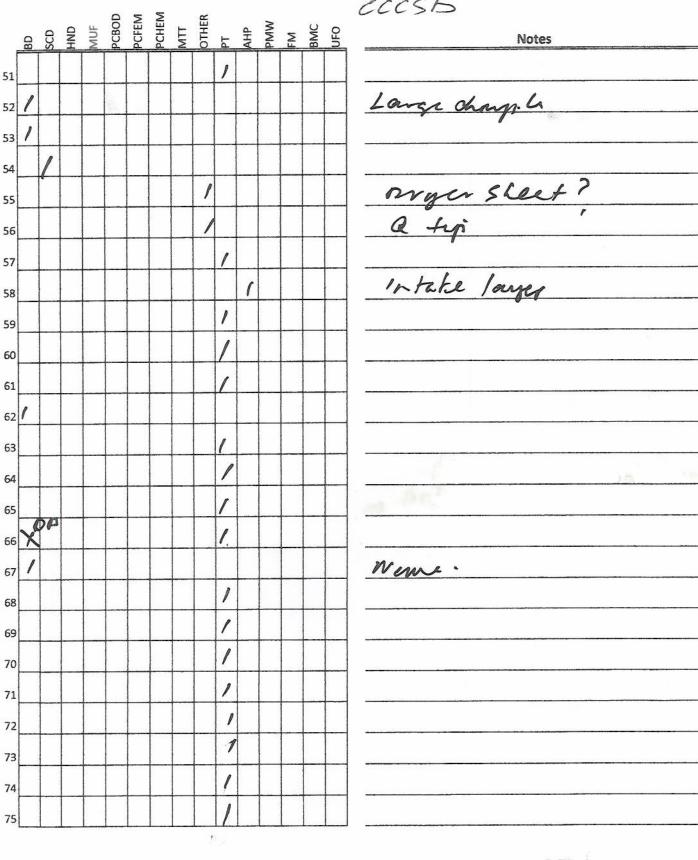
Recorder Initials: ____ 🙆 🖗

K Kennedy Jenks

Date: 10/18/2023 #2 CCCSB

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category



Recorder Initials:

D.P

K Kennedy Jenks

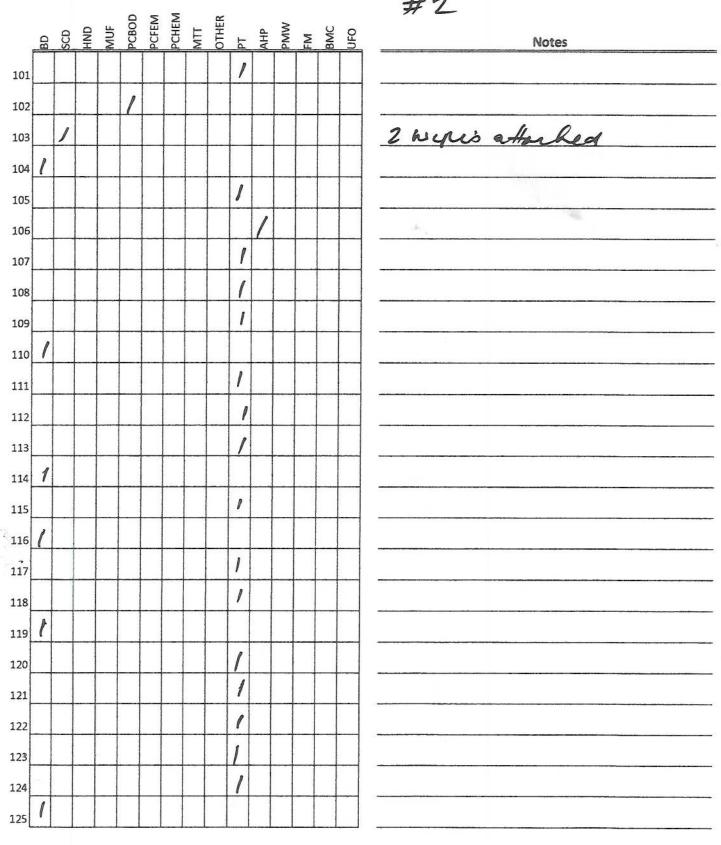
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							tego							2/18/2023 42 CCCSD Collection Event (circle of Day 1 Air), Day 1 PM, Day 2
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Date: 10/18/23 ecc 50 #2

Collection Event (circle one): Day 1 AM, Day 1 PM Day 2 AM

K Kennedy Jenks

Wipes Category



Recorder Initials: _____

Date: 10/18/23 (CCSD) #7-

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

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K Kennedy Jenks

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Date: 10/18/23

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

K Kennedy Jenks

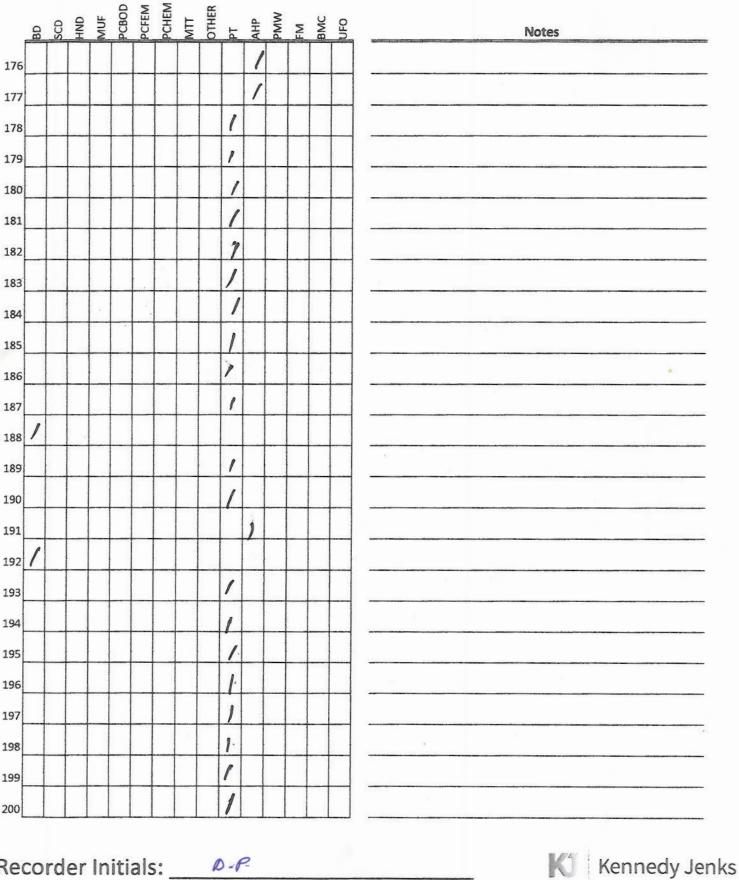
eceso #2 Wipes Category PCBOD PCFEM MTT OTHER PT AHP PMW FM BMC UFO MUF Notes Selt, P 7×12 Nave Cland (femi+) .

Recorder Initials:

Date: 10 / 18/23 #2 CCCSD

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category



Recorder Initials: _____

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Date: 10/18/23 CCCSD # Z

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category

PCBOD PCFEM PCHEM MTT OTHER PT AHP PMW FM BMC SCD MUF JF0 B Notes Revf (land Ware K Kennedy Jenks DP Recorder Initials:

Date: 10/18/23 CCCSS

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

K Kennedy Jenks

Wipes Category

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BD	sco	DNH	MUF	PCBOD	PCFE	PCHE	TIM	OTHER	pT	AHP	MMd	F	BMC	UFO	Notes
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Recorder Initials:

Date: 19/18/23 CCCSD #2

Collection Event (circle one): Day 1 AM Day 1 PM, Day 2 AM

Wipes Category

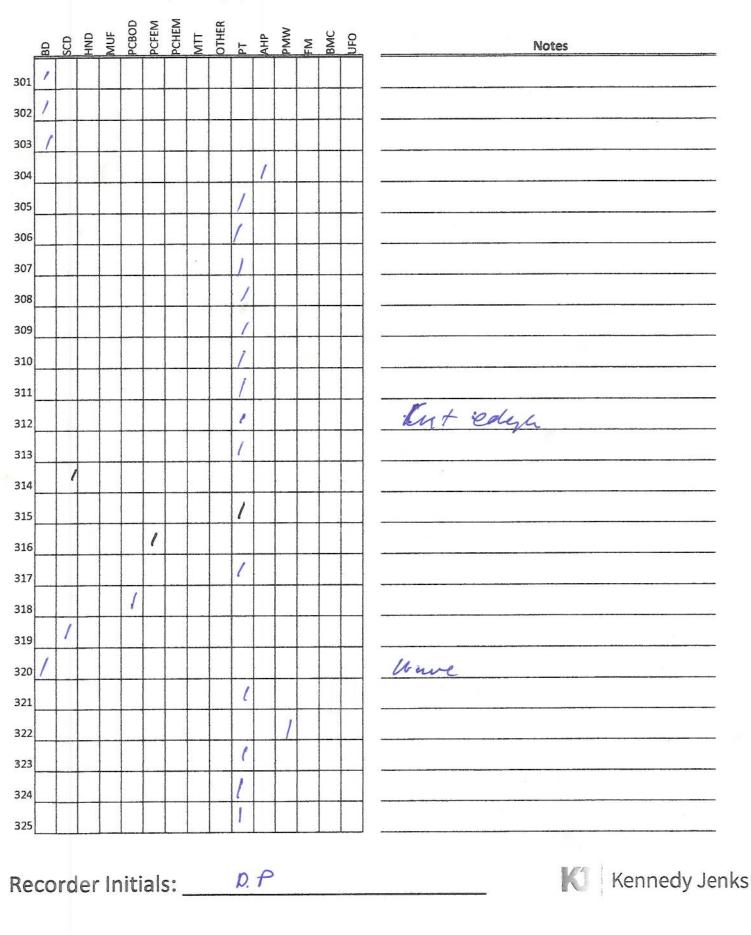
Recorder Initials: _____ A. P

K Kennedy Jenks

Date: 10/18/2023 CCCSD #2

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category



Appendix A

Date: 10/18/23 Collectric #2

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

K Kennedy Jenks

Wipes Category

LECSA

PCHEM PCFEM PCBOD OTHER MUF MIT MMd QNH SCD PT FM BMC UFO BD Notes 326 327 328 329 1 330 331 . 332 333 334 335 Round 336 20 -Moon 337 338 1 339 340 1 341 1 342 1 343 1 344 345 346 347 348 349 350

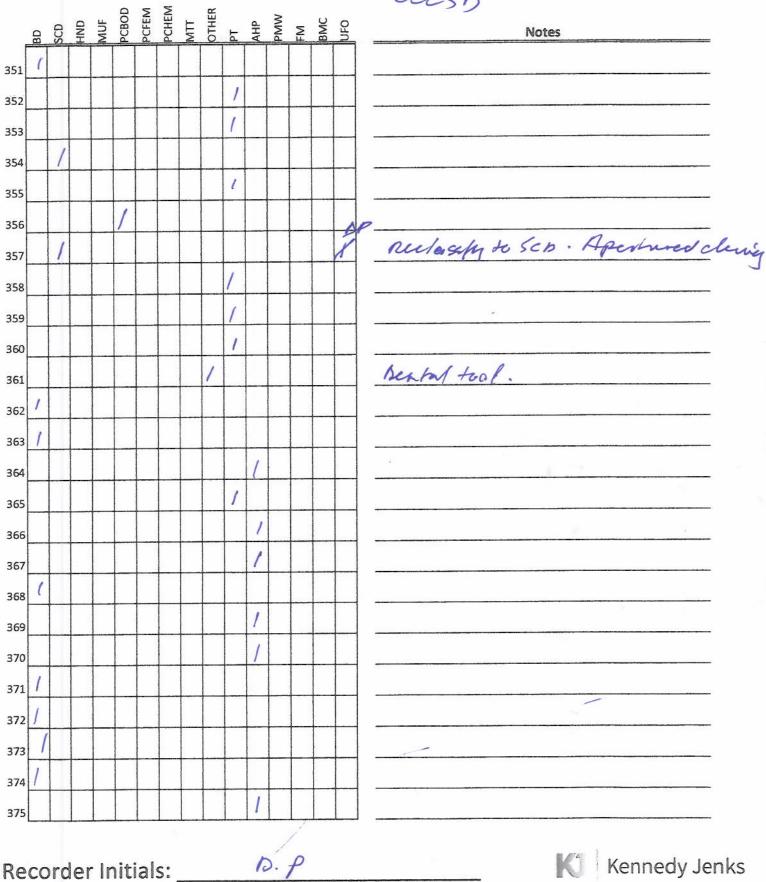
Recorder Initials:

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Date: 10/18/2023 Collect. #2 CCCSD

Collection Event (circle one): Day 1 AM, Day 1 PM, Day 2 AM

Wipes Category



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BD	HND	MUF	PCBOD	PCFEM	PCHEM	TTM	OTHER	PT	AHP	PMW	FM	BMC	UFO	Notes
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77								1						
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Appendix B

Survey for Agencies

AB 818 Wipes Collection Study Survey

To gain understanding of consumer behavior regarding the flushing of pre-moistened non-woven disposal wipes as a key input into the design of the consumer education and outreach program, representatives from the California Association of Sanitation Agencies (CASA) and representatives from the pre-moistened non-woven disposable wipes manufacturers (INDA, Association of the Non-woven Fabrics Industry) formed an advisory group to collaborate on the wipes collection study.

Through sampling events, the study will collect data from participating wastewater collection systems related to the volume and characteristics of non-sewage materials that are being flushed into the collection system, including pre-moistened non-woven disposal wipes as well as other material (e.g. clothing, toys) and sampling conditions. The data will be collated and summarized for use in the design of the consumer education and outreach program.

To help the support the design of the collection study, please answer the following questions:

The respondent's email (ryan.smith@watsonville.gov) was recorded on submission of this form.

Email *

ryan.smith@watsonville.gov



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

$\mathbf{)}$	Yes

🔵 No

Name, phone number, and email address of someone we can contact for follow-up.

Ryan Smith 831-768-3175 ryan.smith@watsonville.gov

Agency Name

City of Watsonville

Treatment Facility Name

City of Watsonville Wastewater Treatment Facility

Service Area (city name, county, geographic description, etc.)

City of Watsonville, Pajaro County Sanitation District, Freedom County Sanitation District, Salsipuedes Sanitary District.

Is GIS available for your collection system?
• Yes
O No
Is your collection system
O Combined sewer/storm system
Dedicated sewer
O Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

Predominantly Gravity
O Predominantly Pumped
O Trucked in from another entity
O Connection with another Collection system(s)
O Other:
Are your pumped stations equipped with screens? Description of screens, select all that apply.
 Manually cleaned bar Mechanically cleaned bar Mechanically cleaned bar: Chain/cable driven Mechanically cleaned bar: Reciprocating rake Mechanically cleaned bar: Continuous self-cleaning Mechanically cleaned fine screen Other:
 Mechanically cleaned bar Mechanically cleaned bar: Chain/cable driven Mechanically cleaned bar: Reciprocating rake Mechanically cleaned bar: Continuous self-cleaning

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No.

Are your headworks equipped with screens? Description of screen(s), select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other: Mechanically cleaned traveling screen

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

No.

How many miles of collection system?
O Less than 50
51 to 100
101 to 500
501 to 1,000
1,000 to 5,000
O Greater than 5,000

How many lift stations?	
O to 5	
6 to 20	
Greater than 21	

How many lift stations w/solids handling pumps?	
O to 5	
• 6 to 20	
O Greater than 21	

How many lift stations w/grinders/chopper pumps?	
• 0 to 5	
O 6 to 20	
Greater than 21	
Number of total connections?	

Number of Single Family	connections?
-------------------------	--------------

Number of Multi-Family units?

Number of Hospitals, Daycares, Care Centers, etc.?

Do you track frequency of screen cleanings and screening equipment maintenance logs?

- O Yes
- No

In the collection system: On average, how many ragging events do you experience per week?
• Less than 2
O 3 to 6
O 7 to 14
O Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 🔵 3 to 6
- 7 to 14

Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

AB 818 Wipes Collection Study Survey This content is neither created nor endorsed by Google.

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AB 818 Wipes Collection Study Survey

To gain understanding of consumer behavior regarding the flushing of pre-moistened non-woven disposal wipes as a key input into the design of the consumer education and outreach program, representatives from the California Association of Sanitation Agencies (CASA) and representatives from the pre-moistened non-woven disposable wipes manufacturers (INDA, Association of the Non-woven Fabrics Industry) formed an advisory group to collaborate on the wipes collection study.

Through sampling events, the study will collect data from participating wastewater collection systems related to the volume and characteristics of non-sewage materials that are being flushed into the collection system, including pre-moistened non-woven disposal wipes as well as other material (e.g. clothing, toys) and sampling conditions. The data will be collated and summarized for use in the design of the consumer education and outreach program.

To help the support the design of the collection study, please answer the following questions:

The respondent's email (emakowski@ieua.org) was recorded on submission of this form.

Email *

emakowski@ieua.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

$oldsymbol{O}$	Yes
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No

Name, phone number, and email address of someone we can contact for follow-up.

Lucia Diaz, 909-342-2365, Idiaz@ieua.org

Agency Name

Inland Empire Utilities Agency

Treatment Facility Name

RP-1, RP-4, RP-5, CCWRF

Service Area (city name, county, geographic description, etc.)

inland Empire (Fontana, Rancho Cucamonga, Ontario, Montclair, Chino, Chino Hills, Upland

Is GIS available for your collection system?
• Yes
O No
Is your collection system
O Combined sewer/storm system
Dedicated sewer
O Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?
Predominantly Gravity
O Predominantly Pumped
Trucked in from another entity
O Connection with another Collection system(s)
O Other:
Are your pumped stations equipped with screens? Description of screens, select all that apply. Manually cleaned bar Mechanically cleaned bar Mechanically cleaned bar: Chain/cable driven Mechanically cleaned bar: Designed to release
Mechanically cleaned bar: Reciprocating rake Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

no

Are your headworks equipped with screens? Description of screen(s), select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

no

How many miles of collection system?	
C Less than 50	
○ 51 to 100	
101 to 500	
○ 501 to 1,000	
1,000 to 5,000	
Greater than 5,000	

How many lift stations?	
0 to 5	
O 6 to 20	
O Greater than 21	

How many lift stations w/solids handling pumps?
• 0 to 5
O 6 to 20
Greater than 21

How many lift stations w/grinders/chopper pumps?	
● 0 to 5	
O 6 to 20	
Greater than 21	
Number of total connections?	

Number of Single Family	connections?
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Number of Multi-Family units?

Number of Hospitals, Daycares, Care Centers, etc.?

Do you track frequency of screen cleanings and screening equipment maintenance logs?

🔵 Yes

🔵 No

In the collection system: On average, how many ragging events do you experience per week?
Less than 2
O 3 to 6
○ 7 to 14
O Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
-) 3 to 6
- 7 to 14

Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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AB 818 Wipes Collection Study Survey

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To help the support the design of the collection study, please answer the following questions:

The respondent's email (mgonzalez@lwwd.org) was recorded on submission of this form.

Email *

mgonzalez@lwwd.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

$\mathbf{)}$	Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Marvin Gonzalez 760-753-0155

Agency Name

Leucadia Wastewater District

Treatment Facility Name

Encina Wastewater Authority

Service Area (city name, county, geographic description, etc.)

San Diego North County

Is GIS available for your collection system?
• Yes
O No
Is your collection system
O Combined sewer/storm system
Dedicated sewer
O Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?
Predominantly Gravity
O Predominantly Pumped
Trucked in from another entity
O Connection with another Collection system(s)
O Other:
Are your pumped stations equipped with screens? Description of screens, select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

yes

Are your headworks equipped with screens? Description of screen(s), select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

a. Are there grinders, comminutors, or other equipment installed upstream to or at the screen(s) that would tear apart or damage materials?

yes

How many miles of collection system?
C Less than 50
○ 51 to 100
101 to 500
501 to 1,000
1,000 to 5,000
Greater than 5,000

How many lift stations?	
O to 5	
• 6 to 20	
Greater than 21	

How many lift stations w/solids handling pumps?	
O to 5	
6 to 20	
O Greater than 21	

How many lift stations w/grinders/chopper pumps?
O to 5
6 to 20
O Greater than 21
Number of total connections?
20,700

Number of Multi-Family units?

Number of Hospitals, Daycares, Care Centers, etc.?

10

Do you track frequency of screen cleanings and screening equipment maintenance logs?

Yes

) No

In the collection system: On average, how many ragging events do you experience per week?
• Less than 2
O 3 to 6
O 7 to 14
O Greater than 14

In the collection system: If more	than 0 events per week,	roughly how many	labor-hours pe	r week
are used to address "ragging"?				

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14

Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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AB 818 Wipes Collection Study Survey

To gain understanding of consumer behavior regarding the flushing of pre-moistened non-woven disposal wipes as a key input into the design of the consumer education and outreach program, representatives from the California Association of Sanitation Agencies (CASA) and representatives from the pre-moistened non-woven disposable wipes manufacturers (INDA, Association of the Non-woven Fabrics Industry) formed an advisory group to collaborate on the wipes collection study.

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To help the support the design of the collection study, please answer the following questions:

The respondent's email (bealls@rodeosan.org) was recorded on submission of this form.

Email *

bealls@rodeosan.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

$\mathbf{)}$	Yes

🔵 No

Name, phone number, and email address of someone we can contact for follow-up.

Steve Beall, 510-799-2970 x100, bealls@rodeosan.org

Agency Name

Rodeo Sanitary District

Treatment Facility Name

Rodeo Sanitary District Water Pollution Control Plant

Service Area (city name, county, geographic description, etc.)

Rodeo

Is GIS available for your collection system?
• Yes
O No
Is your collection system
O Combined sewer/storm system
O Dedicated sewer
O Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?
Predominantly Gravity
O Predominantly Pumped
Trucked in from another entity
O Connection with another Collection system(s)
O Other:
 Are your pumped stations equipped with screens? Description of screens, select all that apply. Manually cleaned bar Mechanically cleaned bar Mechanically cleaned bar: Chain/cable driven Mechanically cleaned bar: Reciprocating rake Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

Grinders

Are your headworks equipped with screens? Description of screen(s), select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?	
O to 5	
O 6 to 20	
O Greater than 21	

How many lift stations w/solids handling pumps?	
• 0 to 5	
O 6 to 20	
O Greater than 21	

How many lift stations w/grinders/chopper pumps?
• 0 to 5
O 6 to 20
O Greater than 21
Number of total connections?
about 2500

Number of Single Family connections?	
about 2300	

Number of Multi-Family units?

about 100

Number of Hospitals, Daycares, Care Centers, etc.?

about 3

Do you track frequency of screen cleanings and screening equipment maintenance logs?

🔵 Yes

💽 No

In the collection system: On average, how many ragging events do you experience per week?
• Less than 2
O 3 to 6
O 7 to 14
O Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
-) 3 to 6
- 7 to 14

Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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AB 818 Wipes Collection Study Survey

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To help the support the design of the collection study, please answer the following questions:

The respondent's email (pseitz@centralsan.org) was recorded on submission of this form.

Email *

pseitz@centralsan.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

\bigcirc	Yes
\bigcirc	No

Name, phone number, and email address of someone we can contact for follow-up.

Paul Seitz, 925-335-7743, pseitz@centralsan.org

Agency Name

Central San

Treatment Facility Name

Central San

Service Area (city name, county, geographic description, etc.)

San Ramon, Danville, Alamo, Lafayette, Orinda, Moraga, Walnut Creek, Pleasant Hill, Pacheco, Clyde, Portions of Martinez, and Portions of unincorporated Contra Costa County

Is GIS available for your collection system?
• Yes
O No
Is your collection system
O Combined sewer/storm system
Dedicated sewer
O Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?
Predominantly Gravity
O Predominantly Pumped
Trucked in from another entity
O Connection with another Collection system(s)
O Other:
Are your pumped stations equipped with screens? Description of screens, select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

(4) Pumping Stations have grinders - San Ramon, Martinez, Lower Orinda and Moraga Pumping Stations

Are your headworks equipped with screens? Description of screen(s), select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

No

How many miles of collection system?	
C Less than 50	
○ 51 to 100	
101 to 500	
501 to 1,000	
1,000 to 5,000	
Greater than 5,000	

How many lift stations?	
O to 5	
• 6 to 20	
Greater than 21	

How many lift stations w/solids handling pumps?
O to 5
● 6 to 20
O Greater than 21

How many lift stations w/grinders/chopper pump	s?
0 to 5	
O 6 to 20	
Greater than 21	
Number of total connections?	
118,784	

Number of Single Family connections?
98,557

Number of Multi-Family units?

40,588

Number of Hospitals, Daycares, Care Centers, etc.?
219
Do you track frequency of screen cleanings and screening equipment maintenance logs?
• Yes
O No
In the collection system: On average, how many ragging events do you experience per week?

Less than 2

) 3 to 6

7 to 14

Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
-) 3 to 6
- 7 to 14

Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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Google Forms

AB 818 Wipes Collection Study Survey

To gain understanding of consumer behavior regarding the flushing of pre-moistened non-woven disposal wipes as a key input into the design of the consumer education and outreach program, representatives from the California Association of Sanitation Agencies (CASA) and representatives from the pre-moistened non-woven disposable wipes manufacturers (INDA, Association of the Non-woven Fabrics Industry) formed an advisory group to collaborate on the wipes collection study.

Through sampling events, the study will collect data from participating wastewater collection systems related to the volume and characteristics of non-sewage materials that are being flushed into the collection system, including pre-moistened non-woven disposal wipes as well as other material (e.g. clothing, toys) and sampling conditions. The data will be collated and summarized for use in the design of the consumer education and outreach program.

To help the support the design of the collection study, please answer the following questions:

The respondent's email (abudicin@wmwd.com) was recorded on submission of this form.

Email *

abudicin@wmwd.com



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

\bigcirc	Yes
\bigcirc	No

Name, phone number, and email address of someone we can contact for follow-up.

Anthony Budicin, (951) 571-7288

Agency Name

Western Riverside County Regional Wastewater Authority

Treatment Facility Name

Western Riverside County Regional Wastewater Treatment Plant

Service Area (city name, county, geographic description, etc.)

Eastvale, City of Norco, City of Corona, City of Riverside, Home Gardens - All in Riverside County

Is GIS available for your collection system?
• Yes
O No
Is your collection system
O Combined sewer/storm system
Dedicated sewer
O Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?
Predominantly Gravity
O Predominantly Pumped
Trucked in from another entity
O Connection with another Collection system(s)
O Other:
Are your pumped stations equipped with screens? Description of screens, select all that apply. Manually cleaned bar Mechanically cleaned bar Mechanically cleaned bar: Chain/cable driven Mechanically cleaned bar: Reciprocating rake Mechanically cleaned bar: Continuous self-cleaning Mechanically cleaned fine screen Other:
Other

No

No

How	v many miles o	t collection system?
\bigcirc	Less than 50	

- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?	
O to 5	
O 6 to 20	
O Greater than 21	

How many lift stations w/solids handling pumps?	
O to 5	
O 6 to 20	
O Greater than 21	

How many lift stations w/grinders/chopper pumps?
O to 5
O 6 to 20
Greater than 21
Number of total connections?
21,693 (minimum)

21,193 (minimum)

Number of Multi-Family units?

488 (minimum)

Number of Hospitals, Daycares, Care Centers, etc.?

12 (minimum)

Do you track frequency of screen cleanings and screening equipment maintenance logs?

🔵 Yes

💽 No

In the collection system: On average, how many ragging events do you experience per week?
O Less than 2
O 3 to 6
○ 7 to 14
O Greater than 14

In the collection system: If more	than 0 events per week,	roughly how many	labor-hours pe	r week
are used to address "ragging"?				

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
- 3 to 6
- 7 to 14

Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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AB 818 Wipes Collection Study Survey

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Through sampling events, the study will collect data from participating wastewater collection systems related to the volume and characteristics of non-sewage materials that are being flushed into the collection system, including pre-moistened non-woven disposal wipes as well as other material (e.g. clothing, toys) and sampling conditions. The data will be collated and summarized for use in the design of the consumer education and outreach program.

To help the support the design of the collection study, please answer the following questions:

The respondent's email (jdang@oroloma.org) was recorded on submission of this form.

Email *

jdang@oroloma.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

$\mathbf{)}$	Yes

No

Name, phone number, and email address of someone we can contact for follow-up.

Jimmy Dang

Agency Name

Oro Loma Sanitary District

Treatment Facility Name

Oro Loma/Castro Valley Sanitary District Water Pollution Control Plant

Service Area (city name, county, geographic description, etc.)

San Lorenzo, CA

Is GIS available for your collection system?
• Yes
O No
Is your collection system
O Combined sewer/storm system
Dedicated sewer
O Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?
Predominantly Gravity
O Predominantly Pumped
Trucked in from another entity
O Connection with another Collection system(s)
O Other:
Are your pumped stations equipped with screens? Description of screens, select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

No.

Are your headworks equipped with screens? Description of screen(s), select all that apply.		
Manually cleaned bar		
Mechanically cleaned bar		
Mechanically cleaned bar: Chain/cable driven		
Mechanically cleaned bar: Reciprocating rake		
Mechanically cleaned bar: Continuous self-cleaning		
Mechanically cleaned fine screen		
Other:		

No.

How many miles of collection system?	
C Less than 50	
51 to 100	
101 to 500	
501 to 1,000	
1,000 to 5,000	
Greater than 5,000	

How many lift stations?	
O to 5	
6 to 20	
Greater than 21	

How many lift stations w/solids handling pumps?	
O to 5	
● 6 to 20	
O Greater than 21	

How many lift stations w/grinders/chopper pumps?
O to 5
6 to 20
O Greater than 21
Number of total connections?
47000

Number of Single Family connections?	
45000	

Number of Multi-Family units?

2000

Number of Hospitals, Daycares, Care Centers, etc.?
--

1-10

Do you track frequency of screen cleanings and screening equipment maintenance logs?

Yes

🔵 No

In the collection system: On average, how many ragging events do you experience per week?
Less than 2
O 3 to 6
O 7 to 14
O Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
-) 3 to 6
- 7 to 14

Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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AB 818 Wipes Collection Study Survey

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To help the support the design of the collection study, please answer the following questions:

The respondent's email (aflesse@santabarbaraca.gov) was recorded on submission of this form.

Email *

aflesse@santabarbaraca.gov



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

\bigcirc	Yes
\bigcirc	No

Name, phone number, and email address of someone we can contact for follow-up.

Amanda Flesse, 805-564-5412, aflesse@santabarbaraca.gov

Agency Name

City of Santa Barbara

Treatment Facility Name

El Estero Water Resource Center

Service Area (city name, county, geographic description, etc.)

City of Santa Barbara, Santa Barbara County

Is GIS available for your collection system?
• Yes
O No
Is your collection system
O Combined sewer/storm system
Dedicated sewer
O Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?
Predominantly Gravity
O Predominantly Pumped
Trucked in from another entity
O Connection with another Collection system(s)
O Other:
Are your pumped stations equipped with screens? Description of screens, select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

No

Are your headworks equipped with screens? Description of screen(s), select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

No, just the lift stations

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?	
O to 5	
● 6 to 20	
O Greater than 21	

How many lift stations w/solids handling pumps?	
• 0 to 5	
O 6 to 20	
Greater than 21	

How many lift st	ations w/grinders/ch	nopper pumps?		
0 to 5				
6 to 20				
Greater than	21			
Number of total	connections?			
27,000				

Number of Single Family connections?

Number of Multi-Family units?

Number of Hospitals, Daycares, Care Centers, etc.?

Do you track frequency of screen cleanings and screening equipment maintenance logs?

- Yes
- 🔵 No

In the collection system: On average, how many ragging events do you experience per week?
O Less than 2
3 to 6
○ 7 to 14
Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
-) 3 to 6
- 7 to 14

Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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To help the support the design of the collection study, please answer the following questions:

The respondent's email (joser@unionsanitary.ca.gov) was recorded on submission of this form.

Email *

joser@unionsanitary.ca.gov



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

\bigcirc	Yes		
\bigcirc	No		

Name, phone number, and email address of someone we can contact for follow-up.

Jose Rodrigues, 510-477-7542, Joser@unionsanitary.ca.gov

Agency Name

Union Sanitary District

Treatment Facility Name

Raymond A Boege Alvardo WWTP

Service Area (city name, county, geographic description, etc.)

Fremont, Newark, Union City (Alameda County)

Is GIS available for your collection system?
• Yes
O No
Is your collection system
O Combined sewer/storm system
Dedicated sewer
O Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?
Predominantly Gravity
O Predominantly Pumped
Trucked in from another entity
Connection with another Collection system(s)
O Other:
Are your pumped stations equipped with screens? Description of screens, select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

No

Are your headworks equipped with screens? Description of screen(s), select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

No

How many miles of collection system?	
C Less than 50	
○ 51 to 100	
101 to 500	
O 501 to 1,000	
1,000 to 5,000	
Greater than 5,000	

How many lift stations?	
0 to 5	
O 6 to 20	
O Greater than 21	

How many lift stations w/solids handling pumps?	
● 0 to 5	
O 6 to 20	
O Greater than 21	

How many lift sta	tions w/grinders/cl	nopper pumps?	?	
• 0 to 5				
O 6 to 20				
Greater than 2	21			
Number of total of	onnections?			
118,973				

Number of Single Family connections?
69,927
Number of Multi-Family units?
47,178
Number of Hospitals, Daycares, Care Centers, etc.?
501 - this includes schools
Do you track frequency of screen cleanings and screening equipment maintenance logs?
○ Yes
No No
In the collection system: On average, how many ragging events do you experience per week?
Less than 2
O 3 to 6
O 7 to 14
O Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
-) 3 to 6
- 7 to 14

Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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To help the support the design of the collection study, please answer the following questions:

The respondent's email (mmorton@vallejowastewater.org) was recorded on submission of this form.

Email *

mmorton@vallejowastewater.org



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

Ο	Yes
	No

Name, phone number, and email address of someone we can contact for follow-up.

Agency Name

Vallejo Flood and Wastewater District

Treatment Facility Name

N/A

Service Area (city name, county, geographic description, etc.)

City of Vallejo, SF Bay Area

Is GIS available for your collection system?
• Yes
O No
Is your collection system
O Combined sewer/storm system
Dedicated sewer
O Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?
Predominantly Gravity
O Predominantly Pumped
Trucked in from another entity
O Connection with another Collection system(s)
O Other:
Are your pumped stations equipped with screens? Description of screens, select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other: None

No

Are your headworks equipped with screens? Description of screen(s), select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other:

No

How many miles of collection system?
O Less than 50
○ 51 to 100
101 to 500
501 to 1,000
1,000 to 5,000
Greater than 5,000

How many lift stations?	
O to 5	
O 6 to 20	
• Greater than 21	

How many lift stations w/solids handling pumps?	
• 0 to 5	
O 6 to 20	
O Greater than 21	

How many lift static	ns w/grinders/chopp	er pumps?	
• 0 to 5			
O 6 to 20			
Greater than 21			
Number of total cor	nections?		
37,773			

1	Number of Single Family connections?
	34,332

Number of Multi-Family units?

2057

Number of Hospitals, Daycares, Care Centers, etc.?

1195 Commercial, 189 Government - 2 hospitals

Do you track frequency of screen cleanings and screening equipment maintenance logs?

Yes

) No

In the collection system: On average, how many ragging events do you experience per week?
Less than 2
O 3 to 6
O 7 to 14
O Greater than 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
-) 3 to 6
- 7 to 14

Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

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AB 818 Wipes Collection Study Survey

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To help the support the design of the collection study, please answer the following questions:

The respondent's email (mbrooks@lakearrowheadcsd.com) was recorded on submission of this form.

Email *

mbrooks@lakearrowheadcsd.com



1. Is your agency interested in participating in a wipes collection study? Participation requirements:

i. At least 1-2 staff available to collect, clean, separate, and sort collected materials from your facility's bar screen(s) and record information on provided forms.

ii. Participation in a training session and a series of collection events (one in the wet season and one in the dry season). Collection events are estimated to take place over 3 consecutive days of 2-4 hours each day during peak flows.

\bigcirc	Yes
\bigcirc	No

Name, phone number, and email address of someone we can contact for follow-up.

Matt O'Kelly, (909) 336-7152, mokelly@lakearrowheadcsd.com

Agency Name

Lake Arrowhead Community Services District

Treatment Facility Name

Grass Valley WWTP

Service Area (city name, county, geographic description, etc.)

Lake Arrowhead, San Bernardino County

Is GIS available for your collection system?
• Yes
O No
Is your collection system
O Combined sewer/storm system
Dedicated sewer
Both

What is the average sanitary or dry weather flow of your treatment facility?

- Less than 1.0 MGD
- 1.1 MGD to 5.0 MGD
- 5.1 MGD to 10.0 MGD
- 10.1 MGD to 25.0 MGD
- 25.1 MGD to 50.0 MGD
- Greater than 50.0 MGD

How is sewage conveyed?
Predominantly Gravity
O Predominantly Pumped
Trucked in from another entity
O Connection with another Collection system(s)
O Other:
Are your pumped stations equipped with screens? Description of screens, select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other: No our pump stations do not have screening

No, grinders are downstream.

Are your headworks equipped with screens? Description of screen(s), select all that apply.
Manually cleaned bar
Mechanically cleaned bar
Mechanically cleaned bar: Chain/cable driven
Mechanically cleaned bar: Reciprocating rake
Mechanically cleaned bar: Continuous self-cleaning
Mechanically cleaned fine screen
Other: Mechanically cleaned step-screen

No, grinders are downstream.

How many miles of collection system?

- Less than 50
- 51 to 100
- 101 to 500
- 501 to 1,000
- 1,000 to 5,000
- Greater than 5,000

How many lift stations?	
O to 5	
O 6 to 20	
• Greater than 21	

How many lift stations w/solids handling pumps?
O to 5
6 to 20
O Greater than 21

How many lift stations w/grinders/chopper pumps?
O to 5
6 to 20
Greater than 21
Number of total connections?
10,718

Number of Single Family connections?	
10,320	

Number of Multi-Family units?

137

Number of Hospitals, Daycares, Care Centers, etc.?
Do you track frequency of screen cleanings and screening equipment maintenance logs?
O Yes
No No
In the collection system: On average, how many ragging events do you experience per week?
Less than 2
O 3 to 6

Greater than 14

7 to 14

In the collection system: If more than 0 events per week, roughly how many labor-hours per week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

At the headworks: How many "ragging" events do you experience per week?

- Less than 2
-) 3 to 6
- 7 to 14

Greater than 14

At the headworks: If more than 0, roughly how many labor-hours/week are used to address "ragging"?

- 1 to 2 hours
- 3 to 6 hours
- 7 to 10 hours
- 11 to 20 hours
- Greater than 20 hours

AB 818 Wipes Collection Study Survey This content is neither created nor endorsed by Google.

Google Forms

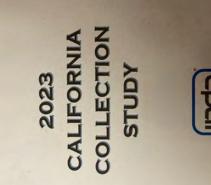
Appendix C

INDA Sample Wipes Folder















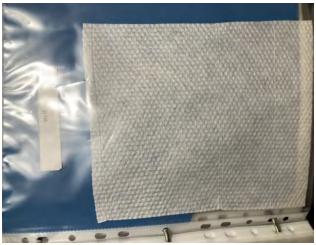






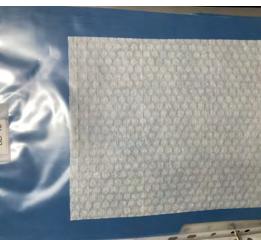








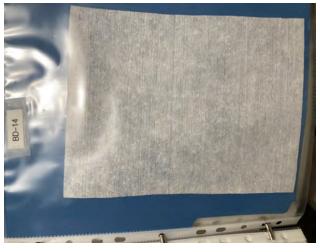
BD-9











































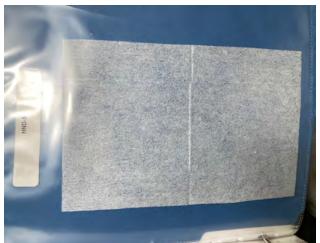








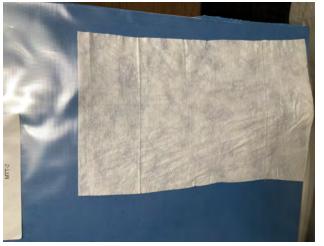


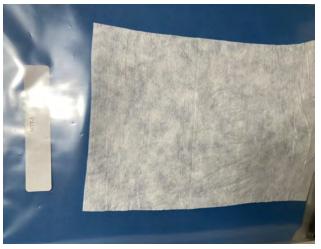


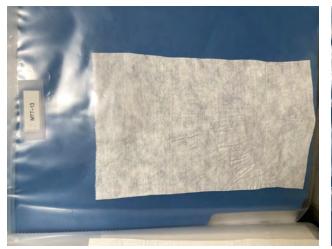






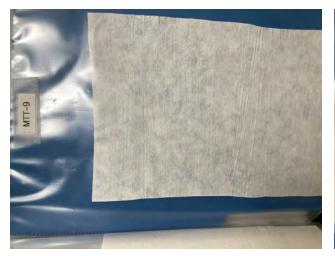


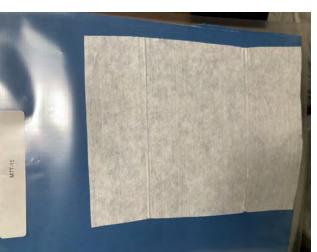










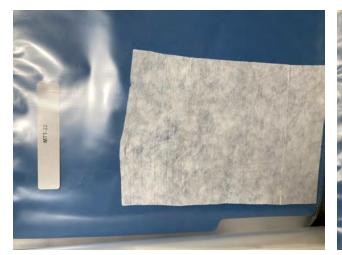










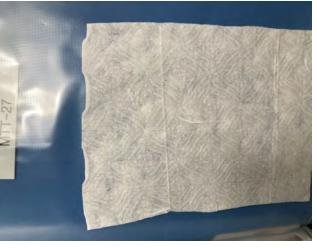
















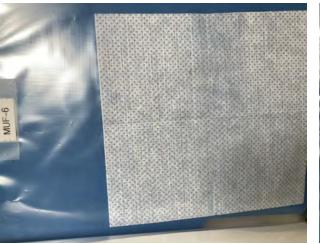








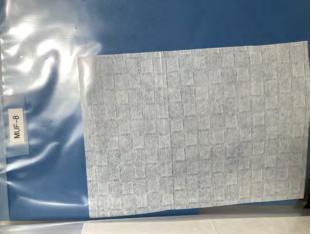












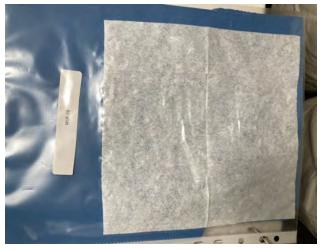




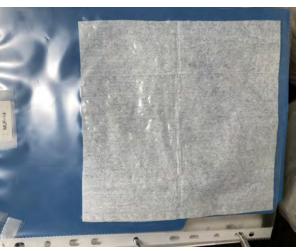




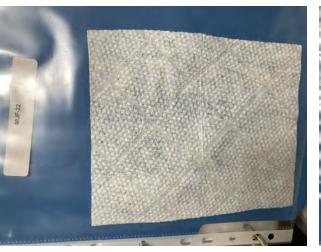




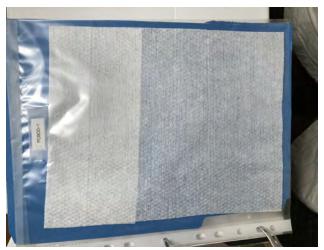


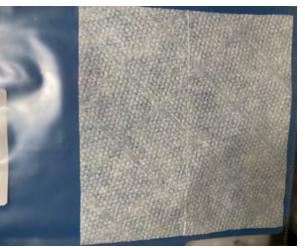














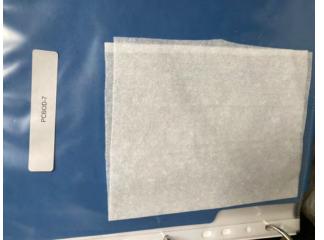


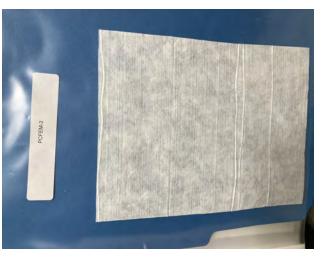


















































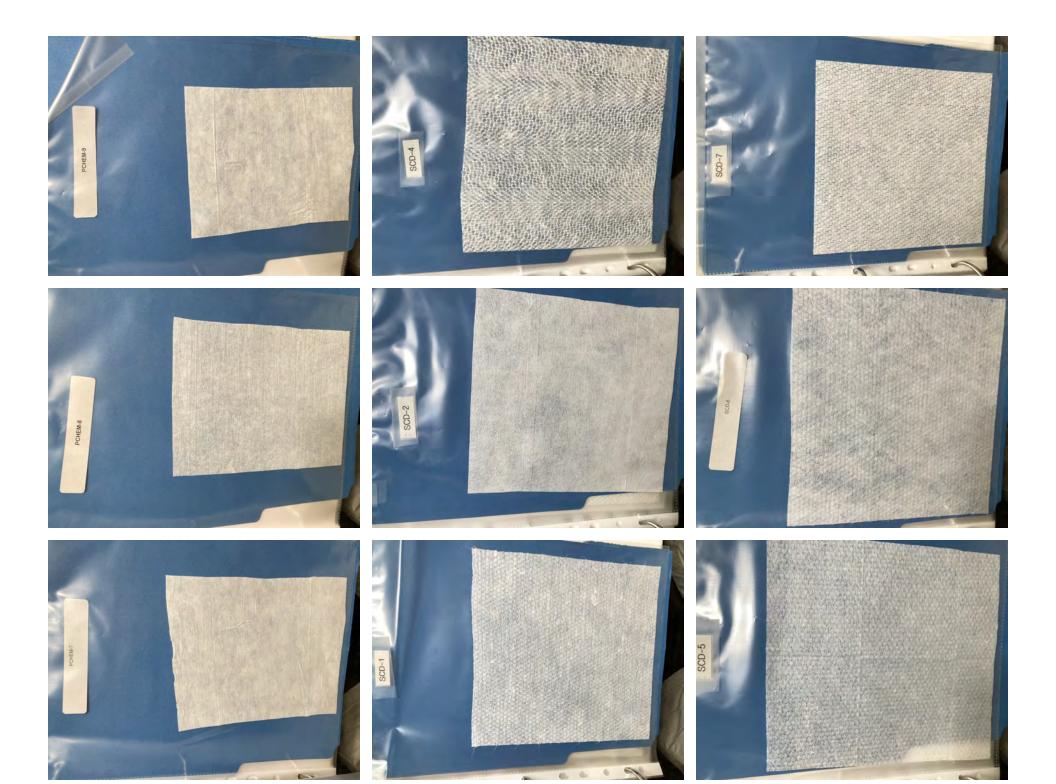








































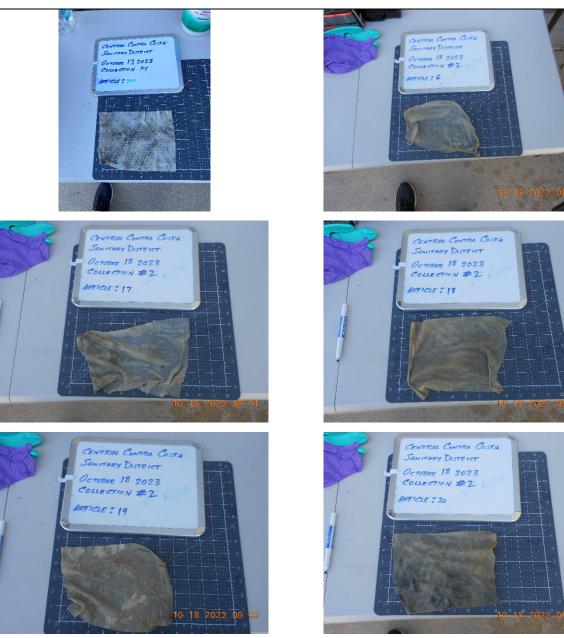




Appendix D

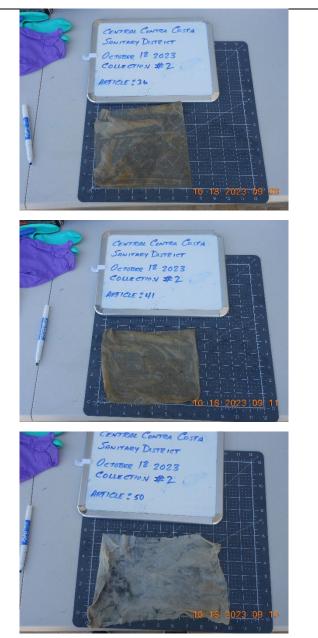
Photographs of Representative Recovered Materials





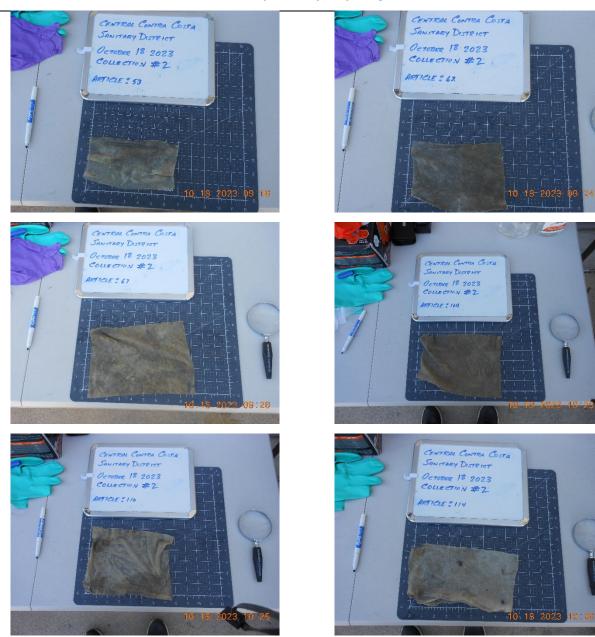




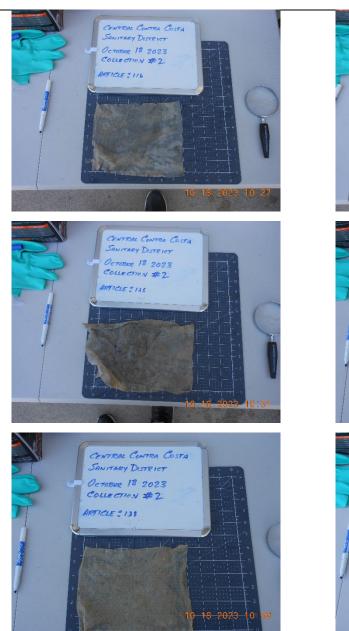














CENTRAL CONTRA COSTA

















SCD Wipes (Surface Cleaning and Disinfecting Wipes)





SCD Wipes (Surface Cleaning and Disinfecting Wipes)





HND Wipes (Hand Sanitizing Wipes)

















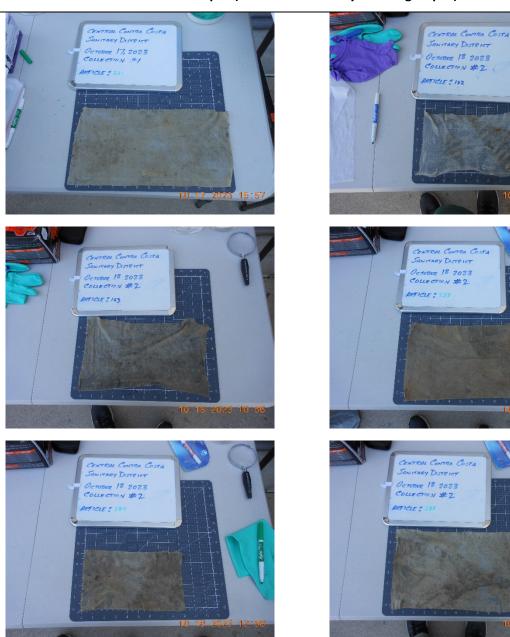








23 09:46



PCBOD Wipes (Personal Care Body Cleaning Wipes)

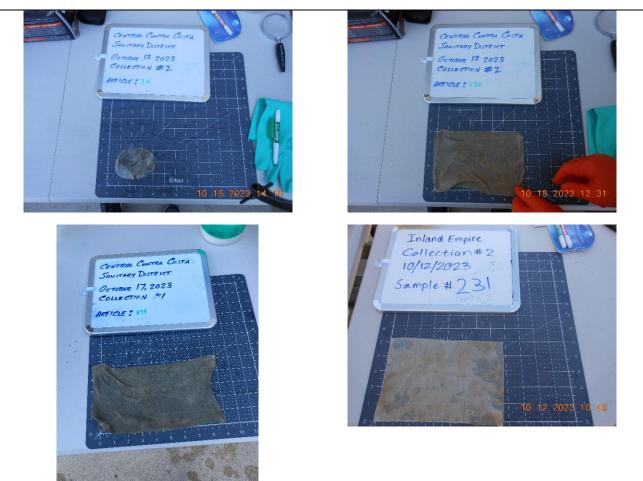


PCBOD Wipes (Personal Care Body Cleaning Wipes)





PCFEM Wipes (Personal Care Feminine Hygiene Wipes)

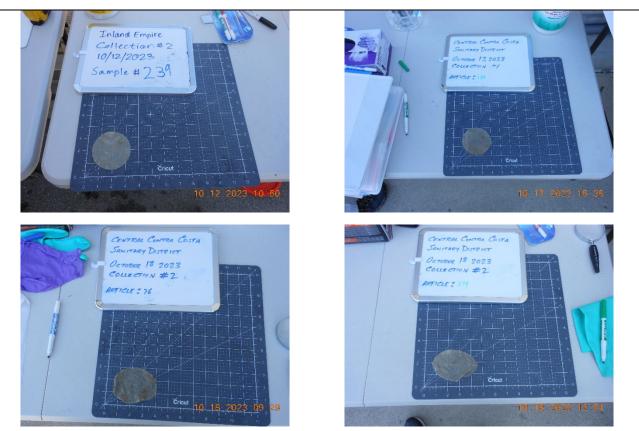






PCFEM Wipes (Personal Care Feminine Hygiene Wipes)

PCHEM Wipes (Personal Care Adult Hygiene / Hemorrhoid Wipes)





55



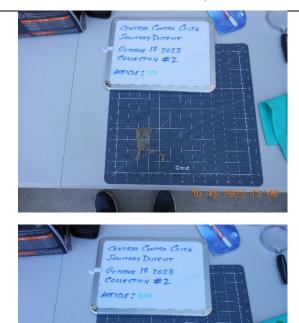
MTT Wipes (Moist Toilet Paper / Flushable Wipes)





MTT Wipes (Moist Toilet Paper / Flushable Wipes)





MTT Wipes (Moist Toilet Paper / Flushable Wipes)







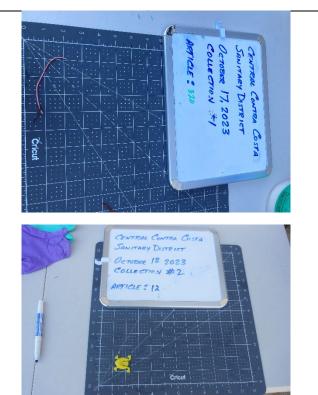
OTHER (Misc. Products Used in Bathrooms e.g. nail polish removers, dental floss, etc)





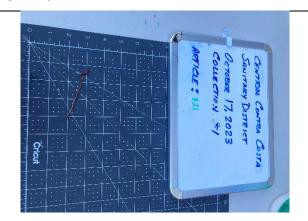




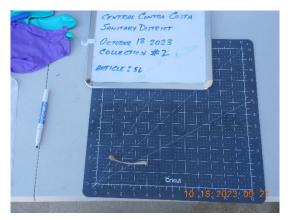


OTHER (Misc. Products Used in Bathrooms e.g. nail polish removers, dental floss, etc)













OTHER (Misc. Products Used in Bathrooms e.g. nail polish removers, dental floss, etc)



PT (Paper Towels and Non-Flushable Paper)







COLLECTION -

R 17, 2023

WITZER CONTRA

nar: 340



PT (Paper Towels and Non-Flushable Paper)









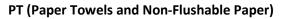












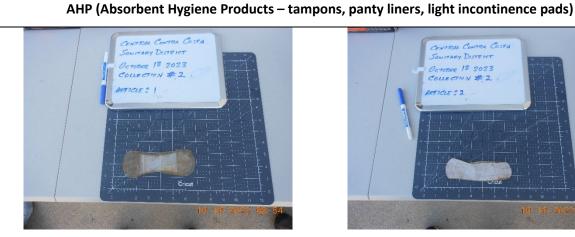






















PMW (packaging materials)















PMW (packaging materials)













FM (Facemasks, Shoulder Pads, Gloves, Hair Scrunchies, Woven Towels, etc)













UFOs (Unidentifiable Do Not Flush Wipes)















UFOs (Unidentifiable Do Not Flush Wipes)





Trash

