

# Incident Report

TO: State Water Resources Control Board

FROM: James J. Pinkevich, Treatment Facility  
Superintendent, Carmel Area  
Wastewater District



SUBJECT: NPDES Permit Violation – March 10,  
2014

DATE: April 29, 2014

The purpose of this document is to report the circumstances that led to the discharge of an effluent flow from our facility that failed to meet standards set forth in our National Pollutant Discharge Elimination System (N.P.D.E.S.) permit.

On March 10 2014, the Carmel Area Wastewater District's treatment facility located at 26900 State Route One, Carmel CA, 93922 was in operation treating wastewater using the following treatment processes: primary sedimentation and clarification, secondary activated sludge treatment in suspended growth reactors, secondary clarification, disinfection and a modified tertiary treatment process.

On an archetypal operating day, wastewater passes through the primary and secondary treatment processes, is disinfected using gaseous chlorine and is then stored in the tertiary Flow Equalization Basin (F.E.B). Water is stored in the F.E.B prior to being processed through the tertiary facility, which consists of the Micro filters (M.F.) and a reverse osmosis (R.O.) process. Of the total water that passes through the M.F., approximately 70% is then treated using the R.O. This blend, 30% M.F. 70% R.O., far exceeds standards set forth in our reclamation permit. Approximately 30% of the water, which passes through the R.O., is lost or "rejected" due to the high level of filtration. This rejected water is chlorinated a second time, then de-chlorinated using sodium bisulfite and sent to our effluent building for ocean discharge. On a typical operating day, approximately .3 million gallons of R.O. reject is sent to the ocean discharge.

On March 10, it became necessary to perform a routine cleaning of the secondary clarifiers. During these cleanings, effluent flow is diverted to the outfall rather than to the F.E.B. in order to protect reclamation equipment. Cleaning and diversion of disinfected secondary effluent flow to the ocean discharge began at approximately 11:00am. At approximately 11:15am, operations staff collected a grab sample of the plant effluent flow. Laboratory analysis determined, using an Imhoff Cone, the sample had a settleable solids (S.S.) value of 3.5ml/L thus violating our discharge permit maximum of 3.0ml/L. By the time this analysis was completed and results conveyed to the operations department, cleaning had been complete and the flow stream had been redirected to the F.E.B. The total facility effluent flow meter recorded .091 million gallons had been discharged to the ocean.

In order to prevent a similar violation from occurring again, operations staff is taking the following actions:

- Senior operations staff is drafting a Standard Operating Procedure (S.O.P.) for re-directed all effluent flow. Directing all flow to the beginning of the treatment process will insure capture of S.S.
- Additionally, design is underway to rehabilitate the secondary clarifiers and implement controls that will prevent algae growth.

Date: April 29, 2014

Division of Water Quality  
C/O DMR Processing Center  
P.O. Box 100  
Sacramento, CA 95812-1000



Facility Name: Carmel Area Wastewater District

Address (mailing): P.O. Box 221428, Carmel, CA 93922

Address (shipping): Highway One & Carmel River, Carmel, CA 93923

Contact Person: James Pinkevich

Job Title: Plant Manager

Phone Number: 831-624-1249

WDR/NPDES Order Number: #R3-2008-0007 (NPDES PERMIT – CA0047996)

WDID Number: 3 270101001

Type of Report (circle one):  Monthly    Quarterly    Semi-Annual    Annual

Month(s) (circle applicable Months\*):    Jan    Feb     March    Apr    May    Jun  
                                          Jul    Aug    Sept    Oct    Nov    Dec

\*Annual Reports (circle the first month of the reporting period)

Year: 2014

Violation(s): \_\_\_\_\_ No (there are no violations to report)   x   Yes  
If Yes is marked (complete a-g):

a) Parameter(s) in Violation: Effluent Grab Sample

b) Section(s) of WDR/NPDES Violated: Section four, table six of NPDES

c) Reported Value(s): 3.5ml/L

d) WDR/NPDES Limit Condition: 3.0 ml/L

e) Dates of Violation(s): 3-10-14  
(reference page of report/data sheet)

f) Explanation of Cause(s): Attached  
(attach additional information as needed)

g) Corrective Action(s): Attached  
(attach additional information as needed)

In accordance with the Standard Provisions and Reporting Requirements, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision following a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the person(s) who manage the system or those directly responsible for data gathering, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

If you have any questions or require additional information, please contact me at the number provided above.

Sincerely,



James Pinkevich  
Superintendent

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
**NAME:** CARMEL AREA WWD & PEBBLE BEACH  
**ADDRESS:** 26900 STATE ROUTE ONE  
 CARMEL, CA 93922  
**FACILITY:** CARMEL AREA WWTP  
**LOCATION:** 26900 STATE ROUTE ONE  
 CARMEL, CA 93922

DMR Mailing ZIP CODE: 93922  
 MAJOR (SUBR 03)  
 INFLUENT/MONTHLY Influent Structure

No Discharge

CA0047996	INF-A
PERMIT NUMBER	DISCHARGE NUMBER
MM/DD/YYYY	MM/DD/YYYY
03/01/2014	03/31/2014

ATTN: James Pinkevich

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
BOD, 5-day, 20 deg. C	*****	*****	*****	305	*****	352			
00310 G 0 Raw Sewage Influent Solids, total suspended	*****	*****	*****	Req. Mon. MO AVG	*****	Req. Mon. DAILY MX		Once Every 13 Days	COMP24
00530 G 0 Raw Sewage Influent Flow, in conduit or thru treatment plant	*****	*****	*****	315	*****	436			
50050 G 0 Raw Sewage Influent	*****	*****	*****	Req. Mon. MO AVG	*****	Req. Mon. DAILY MX		Once Every 13 Days	COMP24
	1.235	MGD	5.336	*****	*****	*****		Daily	METER

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
BARBARA BAIKEMA GENERAL MANAGER	831 628-1248	04/29/2014
TYPED OR PRINTED	AREA Code	NUMBER
		MM/DD/YYYY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and analyze the information submitted and that the information submitted hereon is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
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**LOCATION:** 26900 STATE ROUTE ONE  
 CARMEL, CA 93922  
**ATTN:** James Pinkevich

**DMR Mailing ZIP CODE:** 93922  
**MAJOR**  
 (SUBR 03)  
**DISCHARGE** 001/MONTHLY  
 External Outfall

No Discharge

CA0047996	001-A
<b>PERMIT NUMBER</b>	<b>DISCHARGE NUMBER</b>
<b>MONITORING PERIOD</b>	
MM/DD/YYYY	MM/DD/YYYY
03/01/2014	03/31/2014

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS			
Temperature, water deg. fahrenheit	*****	*****	*****	*****			
00011 0 Effluent Gross	*****	*****	*****	*****			
Turbidity	*****	*****	*****	*****			
00070 1 0 Effluent Gross	*****	*****	*****	*****			
BOD, 5-day, 20 deg. C	*****	*****	*****	*****			
00310 1 0 Effluent Gross	*****	*****	*****	*****			
pH	*****	*****	*****	*****			
00400 1 0 Effluent Gross	*****	*****	*****	*****			
Solids, total suspended	*****	*****	*****	*****			
00530 1 0 Effluent Gross	*****	*****	*****	*****			
Solids, settleable	*****	*****	*****	*****			
00545 1 0 Effluent Gross	*****	*****	*****	*****			
Nitrogen, ammonia total [as N]	*****	*****	*****	*****			
00610 1 0 Effluent Gross	*****	*****	*****	*****			

<b>NAME/TITLE PRINCIPAL EXECUTIVE OFFICER</b>	<b>TELEPHONE</b>	<b>DATE</b>
BARBARA BUKENA GENERAL MANAGER	831 621-1228	04/28/2014
<b>TYPED OR PRINTED</b>	<b>AREA CODE</b>	<b>NUMBER</b>
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

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 ATTN: James Pinkevich

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03/01/2014	03/31/2014

DMR Mailing ZIP CODE: 93922  
 MAJOR (SUBR 03)  
 DISCHARGE 001/MONTHLY  
 External Outfall

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
Nitrogen, nitrate total [as N]	*****	*****	*****	*****	*****	*****			
00620 10 Effluent Gross	*****	*****	*****	*****	*****	*****		Monthly	GRAB
Silica, dissolved [as SiO2]	*****	*****	*****	*****	*****	*****		Monthly	GRAB
00955 10 Effluent Gross	*****	*****	*****	*****	*****	*****		Monthly	GRAB
Oil and grease	*****	*****	*****	*****	*****	*****		Monthly	GRAB
03582 10 Effluent Gross	*****	*****	*****	*****	*****	*****		Once Every 13 Days	GRAB
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	*****	*****			
50050 10 Effluent Gross	*****	*****	*****	*****	*****	*****		Daily	METER
Chlorine, total residual	*****	*****	*****	*****	*****	*****			
50060 10 Effluent Gross	*****	*****	*****	*****	*****	*****		Daily	CONTIN
Urea	*****	*****	*****	*****	*****	*****			
71800 10 Effluent Gross	*****	*****	*****	*****	*****	*****		Monthly	GRAB
Coliform, total general	*****	*****	*****	*****	*****	*****		5 Days Every Week	GRAB
74056 10 Effluent Gross	*****	*****	*****	*****	*****	*****			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
BARBARA BURENA GENERAL MANAGER	831 624-1248	04/28/14
TYPED OR PRINTED	AREA Code	NUMBER
		MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

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**ATTN:** James Pinkevich

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<b>MONITORING PERIOD</b>	
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03/01/2014	03/31/2014

**DMR Mailing ZIP CODE:** 93922  
 MAJOR (SUBR 03)  
 DISCHARGE 001/MONTHLY  
 External Outfall

No Discharge

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
BOD, 5-day, percent removal	PERMIT REQUIREMENT	*****	*****	*****	*****	*****				
81010 K 0 Percent Removal	PERMIT REQUIREMENT	*****	*****	96.2	85 MO AV MIN	*****		Monthly	CALCTD	
Solids, suspended percent removal	SAMPLE MEASUREMENT	*****	*****	98.6	85 MO AV MIN	*****				
81011 K 0 Percent Removal	PERMIT REQUIREMENT	*****	*****	*****	*****	*****		Monthly	CALCTD	

<b>NAME/TITLE PRINCIPAL EXECUTIVE OFFICER</b>	<b>TELEPHONE</b>	<b>DATE</b>
BARBARA BULKEMA GENERAL MANAGER TYPED OR PRINTED	831 624-1248 AREA Code NUMBER	02/19/2014 MM/DD/YYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violators.

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