

# DEL MAR WATER QUALITY REPORT

## 2011 WATER QUALITY TEST RESULTS

### WHAT IS THIS REPORT ABOUT?

This report is a snapshot of the quality of the water the City of San Diego provided to the City of Del Mar in 2011. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies.

### WHERE DOES MY WATER COME FROM?

The sources of drinking water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. The City of Del Mar's untreated water is provided by the San Diego County Water Authority, which purchases water from multiple sources, including the Metropolitan Water District of Southern California. Del Mar's water is treated by the City of San Diego at the Miramar Water Treatment Plant. The treated water is transported to Del Mar and stored in the 4 reservoirs maintained by Del Mar's Public Works Department: Crest Reservoir (750,000 gallons), Torrey Pines Reservoir (250,000 gallons), 11<sup>th</sup> Street Reservoir (2,000,000 gallons), and Zuni Reservoir (1,000,000 gallons).

### WHAT DO THE TEST RESULTS SAY?

Del Mar's tap water not only met, but exceeded all Environmental Protection Agency (EPA) and state drinking water health standards in 2011. Del Mar's Public Works Department vigilantly safeguards the City's water supplies and once again we are proud to report that our system met or exceeded all water quality standards.



All drinking water, including bottled water, may reasonably be expected to contain at least trace amounts of some contaminants. Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, such as those undergoing chemotherapy, persons who have had organ transplants, those with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about drinking water. USEPA/Centers for Disease Control

(CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791). During the calendar year 2011, the water supply to each of San Diego's water treatment plants was monitored for *Cryptosporidium* and *Giardi*, and neither was detected.

If present, elevated levels of lead can cause serious health problems, especially for pregnant woman and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. You can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking when your water has been sitting for several hours. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure can be found at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

### CONSTANT INVESTMENT IN IMPROVED WATER QUALITY

The City of Del Mar's continuing efforts to maintain and improve the quality of the water it provides includes implementation of innovative technologies. In 2011, a GridBee submersible mixer was purchased and installed for use at the 11<sup>th</sup> Street Reservoir. In the past, a combination of the reservoir's extended detention time and warm weather has occasionally adversely impacted water quality in the reservoir. The new equipment improves water quality by thoroughly mixing the reservoir water, thereby preventing stagnation and thermal stratification and inducing better disinfectant distribution.

**Español - Este informe contiene información muy importante sobre la calidad de su agua de beber. Tradúzcalo o hable con alguien que lo entienda bien.**

**For more information contact  
Eric Minicilli, Public Works Director  
(858) 755-3294 [eminicilli@delmar.ca.us](mailto:eminicilli@delmar.ca.us)**

# Del Mar Water Quality Report

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. Environmental Protection Agency's (USEPA) Safe Drinking Water Hotline at 800-426-4791. For a list of action levels, visit the California Department of Public Health (CDPH) web site at [www.cdph.ca.gov](http://www.cdph.ca.gov).

## Definition of Terms

**Action Level (AL):** The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs or MCLGs as is economically or technologically feasible. Secondary MCLs are set to protect the odor, taste and appearance of drinking water.

**Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected health risk. MCLs are set by the U.S. EPA.

**Maximum Residual Disinfectant Level (MRDL):** The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a disinfectant added for water treatment below which there is no known or expected health risk. MRDLGs are set by the U.S. EPA.

**Public Health Goal (PHG):** The level of a contaminant in drinking water below which there is no known or expected health risk. PHGs are set by the California EPA.

**Primary Drinking Water Standard (PDWS):** MCLs and MRDLs for contaminants that affect health along with their monitoring, reporting, and water treatment requirements.

## Abbreviations

- A: absent
- CA SMCL: California secondary maximum contaminant level
- CDPH: California Department of Public Health
- CSD MDL (City of San Diego Water Quality Lab method detection limit): lowest quantifiable concentration of a measured analyte detectable by the lab
- CU: color units
- DLR: detection limit for reporting
- gr/Gal: grains per gallon
- ml: milliliter
- MWD: Metropolitan Water District of Southern California
- n/a: not applicable
- ND: not detected
- NTU: nephelometric turbidity units
- OU: odor units
- pCi/L: picocuries per liter (a measure of radiation)
- ppb: parts per billion or micrograms per liter (µg/L) – [1 ppb = 0.001 ppm]
- ppm: parts per million or milligrams per liter (mg/L) – [1 ppm = 1,000 ppb]
- TT (treatment technique): a required process intended to reduce the level of a contaminant in drinking water
- µS/CM: micro-siemens/cm
- < less than
- > greater than

## How to Read the Tables

The tables below list contaminants which 1) CDPH requires the City to monitor, 2) CDPH regulates with associated primary [health] or secondary [aesthetic], or no established standards. During 2011, these contaminants were detected at or above the CDPH's Detection Limits for Purposes of Reporting during the reporting year.

These tables summarize monitoring from 2011 with two exceptions (see table footnotes). CDPH mandates monitoring radioactive contaminants every three years. The lead and copper testing was conducted in 2009, and is monitored every three years. The levels of these contaminants are not expected to vary significantly from year to year.

**TABLE 1 – DETECTED REGULATED CCR CONTAMINANTS WITH PRIMARY MCLs**

Primary Standards (Mandatory Health Related Standards) - CHEMICAL CONTAMINANTS							
CONTAMINANT	UNITS	MCL	PHG (MCLG)	CDPH DLR	MIRAMAR TREATMENT PLANT EFFLUENT CONCENTRATION		TYPICAL SOURCE OF CONTAMINANTS
					AVERAGE	RANGE	
Fluoride naturally occurring	ppm	2	1	0.1	0.2	0.17-0.23	Erosion of natural deposits
Fluoride Treatment Related	ppm	2	1	0.1	0.68	0.43-0.84	Fluoride added at treatment plants

**Primary Standards (Mandatory Health Related Standards) - RADIOACTIVE CONTAMINANTS**

CONTAMINANT	UNITS	MCL	PHG (MCLG)	CDPH DLR	MIRAMAR TREATMENT PLANT EFFLUENT CONCENTRATION		TYPICAL SOURCE OF CONTAMINANTS
					AVERAGE	RANGE	
Gross Alpha Particle Activity	pCi/L	15	0	3	n/a	n/a	Erosion of natural deposits
Gross Beta Particle Activity	pCi/L	50	0	4	ND	ND	Decay of natural and manmade deposits
Uranium	pCi/L	20	0.43	1	1.6	1.6	Erosion of natural deposits

Note: Regulations require monitoring every three years. Most recent monitoring: 2009 for Miramar

**Primary Standards (Mandatory Health Related Standards) - MICROBIOLOGICAL CONTAMINANTS**

CONTAMINANT	Systems that collect <40 samples/month		No. of Months in Violation	PHG (MCLG)	CITY OF DEL MAR - DISTRIBUTION SYSTEM AVERAGE
	MCL				
Total Coliform Bacteria	No more than 1 positive monthly sample		0	0	Naturally present in the environment
Fecal Coliform and <i>E. coli</i>	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive.		0	0	Human and animal fecal waste

**SODIUM, TOTAL HARDNESS, AND TURBIDITY**

CONTAMINANT	UNITS	MCL	PHG (MCLG)	MDL	MIRAMAR TREATMENT PLANT EFFLUENT CONCENTRATION		TYPICAL SOURCE OF CONTAMINANTS
					AVERAGE	RANGE*	
Sodium	ppm	n/a	n/a	20	70.8	55.2 - 88.0	Naturally present in the environment
Total Hardness	ppm	n/a	n/a	10	182	144 - 240	Naturally present in the environment
Total Hardness	gr/Gal	n/a	n/a	0.6	10.6	8.4 - 14.0	Naturally present in the environment
Turbidity	NTU	1	n/a		% ≤ 0.3 NTU		Soil runoff
	TT = 95% of samples <0.3 NTU				100%		

**Primary Standards (Mandatory Health Related Standards) -- AT THE TAP CONTAMINANTS -- LEAD AND COPPER RULE**

CONTAMINANT	UNITS	ACTION LEVEL	PHG (MCLG)	CA DPH DLR	CITY OF DEL MAR - SAMPLES TAKEN AT THE TAP OF 23 DIFFERENT SAMPLE SITES		TYPICAL SOURCE OF CONTAMINANTS
					90th% Concentration	Exceeding AL	
Copper	ppm	1	0.3	0.05	0.463	0	Internal corrosion of household plumbing systems
Lead	ppb	15	0.2	5	2	0	Internal corrosion of household plumbing systems

Note: Monitoring mandated every three years. Most recent monitoring conducted in 2009.

**TABLE 2 -- DETECTED REGULATED CCR CONTAMINANTS WITH SECONDARY MCLs**

CONTAMINANT	UNITS	CA SMCL	CSD MDL	MIRAMAR TREATMENT PLANT EFFLUENT CONCENTRATION		TYPICAL SOURCE OF CONTAMINANTS
				AVERAGE	RANGE	
Chloride	ppm	500	0.5	83.3	66.1 - 103	Runoff/leaching from natural deposits; seawater influence
Color	CU	15	1	2	1 - 3	Naturally - occurring organic materials.
Manganese	ppb	50	20*	ND	ND-ND	Leaching from natural deposits
Odor - Threshold	OU	3	1	ND	ND - 1	Naturally - occurring organic materials
Specific Conductance	µS/cm	1600	n/a	676	549 - 839	Substances that form ions when in water; seawater influence
Sulfate	ppm	500	0.5	119	78.6 - 164	Runoff/leaching from natural deposits; seawater influence
Total Dissolved Solids	ppm	1000	10	413	323-514	Runoff/leaching from natural deposits
Zinc	ppm	5000	50*	ND	ND - 66	Runoff/leaching from natural deposits

\*CDPH DLR

**TABLE 3 -- DETECTED UNREGULATED CCR CONTAMINANTS REQUIRING MONITORING**

CONTAMINANT	UNITS	ACTION LEVEL	CDPH DLR	MIRAMAR TREATMENT PLANT EFFLUENT CONCENTRATION	
				AVERAGE	RANGE
Boron	ppb	1000	100	114	106 - 122

**TABLE 4 – DETECTED DISINFECTION BY-PRODUCTS, DISINFECTANT RESIDUAL AND DISINFECTION BY-PRODUCT PRECURSORS**

Treatment Plant Effluent	UNITS	MCL	MCLG	CDPH DLR	MIRAMAR TREATMENT PLANT EFFLUENT CONCENTRATION		TYPICAL SOURCE OF CONTAMINANTS
CONTAMINANT					MRDL	MRDLG	
Bromate*	ppb	10	0.1	5	ND	ND-ND	By-product of drinking water disinfection
Chlorate**	ppb	n/a	n/a	20	n/a	n/a	By-product of drinking water disinfection
Chlorite*	ppm	1	0.05	0.02	n/a	n/a	By-product of drinking water disinfection
Total Organic Carbon [TOC]	ppm	TT	n/a	0.3	2.46	2.05-3.86	Various natural and manmade sources

\* Required for Miramar, \*\* Chlorate Not required for Miramar

Distribution System Results							
CONTAMINANT	UNITS	MCL	MCLG	CDPH DLR	CITY OF DEL MAR - DISTRIBUTION SYSTEM AVERAGE		TYPICAL SOURCE OF CONTAMINANTS
					MRDL	MRDLG	
Color, Visual	Color Units	15	----	3	<3	1 - 3	Naturally - occurring organic materials.
Odor***	OU (Ton)	3	----	1	1.06	<1 - 1.9	Naturally - occurring organic materials.
Turbidity	NTU	3	----	0.1	0.41	0.1-2.03	Soil runoff + water pressure
Disinfectant Residual [Chloramines]	ppm	4	4	----	1.81	0.1 – 2.58	Drinking water disinfectant added for treatment
HaloAcetic Acids [HAA5]	ppb	60*	n/a	----	17.5	14.0 – 20.6	By-product of drinking water disinfection
Total TriHaloMethanes [TTHMs]	ppb	80*	n/a	----	65.9	50.8 – 76.1	By-product of drinking water chlorination

NOTES: \* Total Trihalomethane and HAA5 compliance is based on system wide Running Annual Average.

\*\* Ranges are based upon single sample results.

\*\*\* Odor: 90% of samples <1 OU



# City of Del Mar



Mr. Sean Sterchi, P.E.  
District Engineer  
California Department of Public Health  
Drinking Water Field Operations Branch  
San Diego District  
1350 Front Street, Room 2050  
San Diego, CA. 92101

June 18, 2012

Re: Consumer Confidence Report (CCR) CY2011 - Certification Form

Dear Mr. Sterchi,

Enclosed please find a copy of the completed Certification Form for the delivery of the Consumer Confidence Report CY2011 to the potable water customers of the City of Del Mar. Post Haste Mailing Services, Inc., distributed this CCR (see copy enclosed) to all water customers of the City of Del Mar on June 15, 2012.

The electronic version of the documents above have also been uploaded to the Electronic Annual Reporting System of the California Department of Public Health Drinking Water Program (<http://www.drinc.ca.gov>).

If you have any questions, please give me a call at (858) 755-3294.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Minicilli".

Eric Minicilli  
Public Works Director

Encl: CCR - Certification Form  
CCR Distribution Certification by Post Haste Mailing Services, Inc.  
City of Del Mar CY2011 Consumer Confidence Report



# ATTACHMENT 7

## Consumer Confidence Report Certification Form (to be submitted with a copy of the CCR)

Water System Name: City of Del Mar

Water System Number: 3710004-001

The water system named above hereby certifies that its Consumer Confidence Report was distributed on 6/15/2012 (date) to customers (and appropriate notices of availability have been given). Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the Department of Public Health.

Certified by: Name: Eric Minicilli  
Signature:   
Title: Public Works Director  
Phone Number: ( 858 ) 755-3294 Date: June 15, 2012

To summarize report delivery used and good-faith efforts taken, please complete the below by checking all items that apply and fill-in where appropriate:

- CCR was distributed by mail or other direct delivery methods. Specify other direct delivery methods used: Post Haste Mailing Service (see copy attached)
- "Good faith" efforts were used to reach non-bill paying consumers. Those efforts included the following methods:
  - Posting the CCR on the Internet at:  
<http://www.delmar.ca.us/News/Pages/WaterFluoridationInformation.aspx>
  - Mailing the CCR to postal patrons within the service area (attach zip codes used): 92014
  - Advertising the availability of the CCR in news media (attach copy of press release)
  - Publication of the CCR in a local newspaper of general circulation (attach a copy of the published notice, including name of newspaper and date published)
  - Posted the CCR in public places (attach a list of locations): City Hall, Finance Department.
  - Delivery of multiple copies of CCR to single-billed addresses serving several persons, such as apartments, businesses, and schools
  - Delivery to community organizations (attach a list of organizations)
- For systems serving at least 100,000 persons: Posted CCR on a publicly-accessible internet site at the following address: www.
- For privately-owned utilities: Delivered the CCR to the California Public Utilities Commission

USPS - Postage Statement Wizard

Job Number:

**Planned**

United States Postal Service  
**Standard Mail - Permit Imprint**

Post Office: Note Mail Arrival Time
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Summary -

Mailing Information		
Permit Holder	Mailing Agent	Org. For Which Mailing Is Prepared
Account Number: 1204518		
Permit Number: 2094		
CRID: 3384450	2758854	3384450
Price Eligibility: Regular		Regular
Name: CITY OF DEL MAR	<b>POST HASTE MAILING</b>	<b>CITY OF DEL MAR</b>
Urbanization:		
Contact Name: JAY LIPSCOMB	SHANE	JAY LIPSCOMB
Street Address: 1050 CAMINO DEL MAR	12260 CROSTHWAITE CIR	1050 CAMINO DEL MAR
P.O. Box:		
City: DEL MAR	POWAY	DEL MAR
State/Province: CA	CA	CA
Zip/Postal Code: 92014 - 2604	92064 - 6882	92014 - 2604
Customer Reference ID:		

Mailing Information	
Post Office Of Mailing: SAN DIEGO CA 92199-9602	<b>Mailer's Mailing Date: 06/15/2012</b>
Account Number: 1204518	Statement Sequence No.:
Permit Number: 2094	Repositionable Notes: No
Permit Type: Permit Imprint	
CRID: 3384450	
Processing Category: Letters	Federal Agency Cost Code:
Weight of a Single Piece: 0.0238 lbs.	Total Pieces: 2,029 pcs.
Mail enclosed in another Class:	DAL Pieces:
If sacked, based on:	Total Weight: 48.2902 lbs.
Sequencing Date:	Address Matching Date -
	Automation Pieces:
Address Matching Date -	Delivery Statistics Files
Carrier Route Pieces:	Date:
Move Update Method: Multiple Methods	
Incentive/Discount Claimed: N/A	

No of Containers:	<b>1' MM Trays</b>	2' MM Trays	2' EMM Trays	Flat Trays	Sacks	Pallets	Other
	7		3				

Comments:

Section Summary Information			
Part	Type	Pieces	Postage
A	Automation Letters	2,006	\$ 419.4810
B	Nonautomation Letters	23	\$ 5.2240

Total From All Parts \$ 424.705  
 Total From Attached Form 3540-S N/A  
**Total Postage: \$ 424.71**

For Extra Services and Other Fees

Postmaster: Report total postage in AIC 130  
 USPS Use Only: Additional Postage Payment (state reason)  
 Postmaster: Report total postage in AIC 130

Total Adjusted Postage (add additional postage to total postage) **\$ 424.71**

Mailing Details									
Line Number	Entry Discount	Title	Description	Price	Quantity	Subtotal Postage	Discount Total	Fee Total	Postage
Part A: Automation Letters									
A4	NONE	Mixed AADC	Letters 3.3 oz (0.2063 lbs) or less	0.278	213pcs.	59.2140	0	0	\$ 59.2140
A9	DSCF	5-Digit	Letters 3.3 oz (0.2063 lbs) or less	0.199	1620pcs.	322.3800	0	0	\$ 322.3800

USPS - Postage Statement Wizard

A11	DSCF	AADC	Letters 3.3 oz (0.2063 lbs) or less	0.219	173pcs.	37.8870	0	0	\$ 37.8870	
A23			Standard Mail Automation Letters Subtotal (Lines A1-A22)						\$ 419.4810	
									Part A Total (Line A23 minus A24)	\$ 419.4810
Part B: Nonautomation Letters										
Line Number	Entry Discount	Title	Description	Price	Quantity	Subtotal Postage	Discount Total	Fee Total	Postage	
B2	NONE	Mixed AADC	Machinable Letters 3.3 oz (0.2063 lbs) or less	0.281	2pcs.	0.5620	0	0	\$ 0.5620	
B5	DSCF	AADC	Machinable Letters 3.3 oz (0.2063 lbs) or less	0.222	21pcs.	4.6620	0	0	\$ 4.6620	
									Part B Total (Add lines B1-B27)	\$ 5.2240
									<b>Total Postage From All Parts</b>	<b>\$ 424.71</b>

**Certification Statement**

By clicking on the "Submit" button, the mailer hereby certifies that all information furnished within this submission is accurate, truthful, and complete; that the mail and the supporting documentation comply with all postal standards and that the mailing qualifies for the prices and fees claimed; and that the mailing does not contain any matter prohibited by law or postal regulation.

The mailer further certifies, if the mailing is claiming a nonprofit price, that: (1) the mailing complies with DMM 300 7(0.1.0); (2) the income derived from the sale of any products or services advertised in the mailing is not subject to the Unrelated Business Income Tax (UBIT) and any products and services advertised are substantially related to the nonprofit organization's authorized purpose within the meaning of 39 U.S.C. § 3626(j)(1)(D)(ii)(I) and 26 U.S.C. § 513(A); (3) the mailing, if made by a voting registration official, is required or authorized by the National Voter Registration Act of 1993; and (4) it will agree to pay, subject to appeal, any revenue deficiencies assessed on this mailing.

If an agent submits this form, the agent certifies that he or she is authorized to submit on behalf of the mailer, and that the mailer is bound by the certification and agrees to pay any deficiencies. In addition, agents may be liable for any deficiencies resulting from matters within their responsibility, knowledge, or control.

I understand that anyone who furnishes false or misleading information in this submission or who omits information requested on this online form may be subject to criminal and/or civil penalties, including fines and imprisonment.

For information regarding our Privacy Policy visit [www.usps.com](http://www.usps.com).

**Signature**

\* Name of the agent or account holder who will be signing this postage statement.

Shane Benton

(Both principal and agent are liable for any postage deficiency incurred.)

\* Agent or permit holder's telephone number.

( 858 ) 513 - 7740

Extension

USPS - Postage Statement Wizard



Electronic Confirmation  
Acceptance Notice

**USPS Generated by Postal Wizard System**

**Note to Mailer:** Your electronic postage statement has been submitted to the USPS *PostalOne!* system on Jun 15, 2012 02:50 PM. Please print and bring this form along with your mailing at the Post Office in SAN DIEGO CA 92199-9602 .

The labels and electronic mailing information associated to this form, must match the physical mailing being presented to the USPS employee with this form.

**Postage Statement ID:** 138833750  
**Account Holder:** CITY OF DEL MAR  
**Account Number:** 1204518  
**Permit Holder:** CITY OF DEL MAR  
**Permit Type:** PI  
**Permit Number:** 2094  
**Mail Agent:** POST HASTE MAILING  
**Mail Owner:** CITY OF DEL MAR  
**Mail Owner Permit Type:** PI  
**Mail Owner Permit Number:** 2094

**Mail Class:** Standard Mail  
**Price Eligibility:** Regular  
**Processing Category:** Letters  
**Weight of single piece:** 0.0238 lbs, ( 0.3808 oz)  
**Total Mail Pieces:** 2,029 pcs.  
**Total Weight:** 48.2902 lbs.  
**Total Postage Amount:** \$ 424.71

Handling Unit:

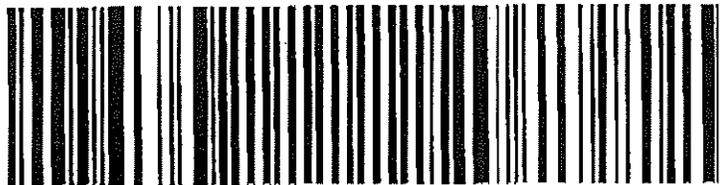
1' MM Trays	2' MM Trays	2' EMM Trays	Flat Trays	Sacks	Pallets	Other
7		3				

\*Note: This mailing may be subject for additional verification at the time of acceptance.

**Action**

Please scan :

SCAN AT ACCEPTANCE



9275 7900 0000 0000 1388 3375 09

# POST HASTE Mailing Services, Inc.

12260 Crosthwaite Circle  
Poway, CA 92064  
Phone: 858/513-7740 Fax: 858/513-7744  
e-mail: data@posthastemailing.com

Fax Transmission

To: Victor Date: 6/15/12  
Company: City of Del Mar  
Fax: \_\_\_\_\_ From: Christen  
Number of pages, including this form: 4

Copy of 3602 for Water  
Quality Report mailing