DEER ISLAND TREATMENT PLANT

LAST UPDATED: AUGUST 27, 2002

PERMITTEE NAME / ADDRESS

NAME MWRA

ADDRESS CHARLESTOWN NAVY YARD

100 FIRST AVE BOSTON MA 02129

FACILITY MWRA

LOCATION BOSTON MA 02129

ATTN: Michael Hornbrook

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
JUNE 2002 - DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD

DAY

1

FROM

MO

7

YEAR

02

MA0103284 T01 A
PERMIT NUMBER DISCHARGE NUMBER

YEAR

02

TO

MO

7

DAY

31

MAJOR (SUBR E) F - FINAL

TREATED SANITARY WASTEWATER

*** NO DISCHARGE ___ ***

PARAMETER		QUANTIT	TY OR LOADII	NG	QUANTITY OR LOADING					FREQUENCY OF	SAMPLE TYPE
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM (MO AVE)	AVERAGE (WKLY)	MAXIMUM (DAILY)	UNITS	(62-63)	ANALYSIS (64-68)	(69-70)
PH	SAMPLE MEASUREMENT	*****	*****	*****	6.5	*****	7.0	SU	0	01 / 01	GR
EFFLUENT	PERMIT LIMIT	*****	*****		6.0 MINIMUM	*****	9.0 MAXIMUM	SU		DAILY	GRAB
SOLIDS, TOTAL SUSPENDED INFLUENT	SAMPLE MEASUREMENT	*****	*****	*****	181.1	189.7	240.0	(19) mg/L	0	01 / 01	24
	PERMIT LIMIT	*****	*****		REPORT MO AVG	REPORT WKLY	REPORT DAILY MX	MG/L		DAILY	COMP24
SOLIDS, TOTAL SUSPENDED EFFLUENT	SAMPLE MEASUREMENT	*****	*****	*****	12.2	16.4	23.0	(19) mg/L	0	01 / 01	24
	PERMIT LIMIT	*****	*****		30 MO AVG	45 WKLY	REPORT DAILY MX	MG/L		DAILY	COMP24
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.11	0.20	(25) • mL/L ML/L	0	01 / 01	GR
EFFLUENT	PERMIT LIMIT	*****	*****		*****	REPORT WKLY	REPORT DAILY MX			DAILY	GRAB
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	*****	*****	*****	19.04	*****	*****	(19)	0	05 / 31	24
EFFLUENT	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	*****	mg/L MG/L		ONCE / MONTH	COMP24
NITROGEN, NITRITE	SAMPLE MEASUREMENT	*****	*****	*****	0.25	*****	*****	(19) mg/L MG/L	0	05 / 31	24
TOTAL (AS N) EFFLUENT	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	*****			ONCE / MONTH	COMP24
NITROGEN, NITRATE TOTAL (AS N) EFFLUENT	SAMPLE MEASUREMENT	*****	*****	*****	1.13	*****	*****	(19) mg/L	0	05 / 31	24
	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	*****	MG/L		ONCE / MONTH	COMP24

Page 1 of 6

PARAMETER		(3 Card Only) Ql (46-53)	JANTITY OR I (54-61)	OADING	(4 Card Only) (38-45)	QUANTITY O	PR LOADING (54-61)		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	(64-68)	(69-70)
NITROGEN, KJELDAHL TOTAL (AS N)	SAMPLE MEASUREMENT	*****	*****	*****	23.58	*****	*****	(19)	0	04 / 31	24
EFFLUENT	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	****	mg/L MG/L		ONCE / MONTH	COMP24
CHLORIDE (AS CL) INFLUENT	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	887	(19) mg/L	0	01 / 01	GR
	PERMIT LIMIT	*****	*****		*****	*****	REPORT DAILY MX	MG/L		DAILY	GRAB
ARSENIC, TOTAL (AS AS)	SAMPLE MEASUREMENT	*****	*****	*****	0.0	*****	0.0	(28) ug/L	0	03 / 31	24
EFFLUENT	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	UG/L		ONCE / MONTH	COMP24
COPPER TOTAL RECOVERABLE	SAMPLE MEASUREMENT	*****	*****	*****	13.47	*****	19.30	(28)	0	07 / 31	24
EFFLUENT	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
COLIFORM, FECAL - % of total number of samples	SAMPLE MEASUREMENT	*****	*****	******	0.0	*****	*****	%	0	03 / 01	CA
exceeding 14000 #/100mL EFFLUENT	PERMIT LIMIT	*****	*****		10 MAXIMUM	*****	*****	PERCENT		THREE / DAY	GRAB
PCB-1016	SAMPLE MEASUREMENT	*****	*****	******	0.0	*****	0.0	(28)	0	02 / 31	24
(AROCHLOR 1016) EFFLUENT	PERMIT LIMIT	*****	*****		0.000045 MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
4, 4'-DDT (P, P'-DDT) EFFLUENT	SAMPLE MEASUREMENT	*****	*****	*****	0.0	*****	0.0	(28)	0	02 / 31	24
	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24

PARAMETER		(3 Card Only) Q (JANTITY OR I	OADING	(4 Card Only) (38-45)	QUANTITY C	R LOADING		NO. EX		SAMPLE TYPE
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	ANALYSIS (64-68)	(69-70)
ALDRIN EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	******	0.0	*****	0.0	(28)	0	02 / 31	24
	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
CHLORDANE, ALPHA,	SAMPLE MEASUREMENT	*****	*****	******	0.0	*****	0.0	(28)	0	02 / 31	24
WHOLE WATER EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
CHLORDANE (TECH MIX.	SAMPLE MEASUREMENT	*****	*****	******	0.0	*****	0.0	(28)	0	02 / 31	24
AND METABOLITES) EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
DIELDRIN	SAMPLE MEASUREMENT	*****	*****	*****	0.0	*****	0.0	(28)	0	02 / 31	24
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
HEPTACHLOR	SAMPLE MEASUREMENT	*****	*****	******	0.0	*****	0.0	(28)	0	02 / 31	24
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
HEPTACHLOR EPOXIDE	SAMPLE MEASUREMENT	*****	*****	******	0.0	*****	0.0	(28)	0	02 / 31	24
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
PCB-1221 (AROCHLOR 1221) EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	0.0	*****	0.0	(28)	0	02 / 31	24
	PERMIT LIMIT	*****	*****		0.000045 MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24

PARAMETER		(3 Card Only) QI		OADING	` ,				NO. EX		SAMPLE TYPE
(32-37)		(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63)	ANALYSIS (64-68)	(69-70)
PCB-1232 (AROCHLOR 1232)	SAMPLE MEASUREMENT	*****	*****	*****	0.0	*****	0.0	(28)	0	02 / 31	24
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		0.000045 MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
PCB-1242 (AROCHLOR 1242) EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	0.0	*****	0.0	(28) ug/L	0	02 / 31	24
	PERMIT LIMIT	*****	*****		0.000045 MO AVG	*****	REPORT DAILY MX	UG/L		ONCE / MONTH	COMP24
PCB-1248 (AROCHLOR 1248)	SAMPLE MEASUREMENT	*****	*****	*****	0.0	*****	0.0	(28) ug/L	0	02 / 31	24
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		0.000045 MO AVG	*****	REPORT DAILY MX	UG/L		ONCE / MONTH	COMP24
PCB-1254 (AROCHLOR 1254)	SAMPLE MEASUREMENT	*****	*****	******	0.0	*****	0.0	(28)	0	02 / 31	24
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	****		0.000045 MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
PCB-1260 (AROCHLOR 1260)	SAMPLE MEASUREMENT	*****	****	******	0.0	*****	0.0	(28)	0	02 / 31	24
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	****		0.000045 MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
POLYCHLORINATED	SAMPLE MEASUREMENT	*****	****	******	0.00279	*****	0.00279	(28)	0	01 / 31	24
BIPHENYLS (PCBS) EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
HEXACHLOROBENZENE EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	0.0	*****	0.0	(28)	0	02 / 31	24
	PERMIT LIMIT	*****	****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24

		(3 Card Only) QI	JANTITY OR I	OADING	(4 Card Only)	QUANTITY O	R LOADING		NO. EX	FREQUENCY OF	SAMPLE TYPE
PARAMETER		(46-53)	(54-61)		(38-45)	(46-53)	(54-61)			ANALYSIS	
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	(64-68)	(69-70)
CHLORDANE, GAMMA, WHOLE WATER	SAMPLE MEASUREMENT	*****	*****	*****	0.0	*****	0.0	(28)	0	02 / 31	24
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
FLOW, IN CONDUIT OR	SAMPLE MEASUREMENT	282.1	375.7	(03)	*****	*****	*****	******	0	99 / 99	RC
THRU TREATMENT PLANT EFFLUENT GROSS VALUE	PERMIT LIMIT	REPORT MO AVG	REPORT DAILY MX	mgd MGD	*****	*****	*****			CONTIN- UOUS	RCORDR
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	****	*****	30	*****	33	(19) ug/L	0	03 / 01	GR
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		456 MO AVG	*****	631 DAILY MX	ug/L ug/L		THREE / DAY	GRAB
MERCURY, TOTAL	SAMPLE MEASUREMENT	*****	*****	*****	0.010	*****	0.023	(28)	0	08 / 31	24
(AS HG) EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	COMP24
COLIFORM, FECAL GENERAL	SAMPLE MEASUREMENT	*****	****	*****	N/A			(13) #/100mL			
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	****		200 MoGeoMean	200 WKLY MN	400 DAILY MX	#/100ML		THREE / DAY	GRAB
COLIFORM, FECAL	SAMPLE MEASUREMENT	*****	****	*****	*****	9	59	(13)	0	03 / 01	GR
GENERAL EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		*****	14000 WKLY MN	14000 DAILY MX	#/100mL #/100ML		THREE / DAY	GRAB
CYANIDE, TOTAL EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	****	*****	0.0	*****	0.0	(28)	0	02 / 31	GR
	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	GRAB

		(3 Card Only) Ql	JANTITY OR I	LOADING	(4 Card Only)	QUANTITY C	R LOADING		NO. EX	FREQUENCY OF	SAMPLE TYPE
PARAMETER		(46-53)	(54-61)		(38-45)	(46-53)	(54-61)			ANALYSIS	
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	(64-68)	(69-70)
VOLATILE FRACTION ORGANICS (EPA 624)	SAMPLE MEASUREMENT	*****	*****	******	20.05	*****	25.82	(28)	0	02 / 31	GR
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****		REPORT MO AVG	*****	REPORT DAILY MX	ug/L UG/L		ONCE / MONTH	GRAB
CBOD5 / NH3-N RAW SEW/INFLUENT	SAMPLE MEASUREMENT	*****	*****	*****	120.5	124.4	158.5	(19)	0	01 / 01	24
	PERMIT LIMIT	*****	*****		REPORT MO AVG	REPORT WKLY	REPORT DAILY MX	mg/L MG/L		DAILY	COMP24
CBOD5 / NH3-N	SAMPLE MEASUREMENT	*****	*****	*****	9.4	10.3	16.9	(19) mg/L	0	01 / 01	24
EFFLUENT GROSS VALUE	PERMIT LIMIT	*****	*****	(03)	25 MO AVG	40 WKLY AVG	REPORT DAILY MX	MG/L		DAILY	COMP24
FLOW,TOTAL	SAMPLE MEASUREMENT	290.9	275.2	(03) mgd	*****	*****	*****	*****	0	99 / 99	CA
EFFLUENT GROSS VALUE	PERMIT LIMIT	436 ANNL AVG	REPORT MO AVG	MGD	*****	*****	*****			CONTINUOUS	CALCULATE
NAME / TITLE PRINCIP OFFICER		WITH THE IN	ER PENALTY OF L FORMATION SUB	MITTED HER	EIN; AND BASED	ON MY INQUIR	Y OF THOSE	Soo origin	al form	TELEPHONE	DATE
Michael J. Hornbrook Chief Operating Officer		INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE TH SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE A SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILIT						See origin for signa		(617)788-4359	8/15/2002

DEER ISLAND TREATMENT PLANT

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

JULY 2002-DISC	HARGE MONITORING RE	'
MA0103284		T01 T
PERMIT NUMBER		DISCHARGE NUMBER

MONITORING PERIOD FROM TO YEAR МО DAY YEAR МО DAY 02 7 02 7 31

*** NO DISCHARGE

TUNNEL WET DATA

MAJOR (SUBR E)

F - FINAL

LOCATION DOSTON WA	02129	02	/	l I	02	1	31				
ATTN: Michael Hornbrook		<u>, </u>			-			•			
DADAMETED		(3 Card Only) Ql	JANTITY OR I	OADING	(4 Card Only)	QUANTITY O	R LOADING		NO. EX	FREQUENCY OF	SAMPLE TYPE
PARAMETER (32-37)	\sim	(46-53)	(54-61)		(38-45)	(46-53)	(54-61)			ANALYSIS	
(32-37)	/	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	(64-68)	(69-70)
LC50 STAT 48HR ACU M	SAMPLE	*****	*****		> 100	*****	*****	(23)	0	01 / 31	24
YSID. BAHIA	MEASUREMENT			****	> 100			%	U	01/31	24
TAA3E 1 0 2		*****	*****	****	50	*****	*****	70		ONCE /	COMP24
EFFLUENT GROSS VALUE	PERMIT LIMIT				DAILY MN			PERCENT		MONTH	COMP24
LC50 STAT 48HR ACU M	SAMPLE	*****	*****		68.3	*****	*****	(23)	0	01 / 31	24
ENDIA	MEASUREMENT			****	00.3			%	U	01/31	24
TBD6B 1 0 2		*****	*****	****	50	*****	*****			ONCE /	COMP24
EFFLUENT GROSS VALUE	PERMIT LIMIT				DAILY MN			PERCENT		MONTH	COMF24
NOEL STAT 1HR FERT	SAMPLE	*****	*****		50	*****	*****	(23)	0	01 / 31	24
CHR ARBACIA	MEASUREMENT			****				%	Ŭ.		27
TBH3A 1 0 2		*****	*****	****	1.5	*****	*****	,,,		ONCE /	COMP24
EFFLUENT GROSS VALUE	PERMIT LIMIT				DAILY MN			PERCENT		MONTH	OOMI 24
NOAEL STATRE 7DAY CH	SAMPLE	*****	*****		100	*****	*****	(23)	0	01 / 31	24
R MENIDIA	MEASUREMENT			****				%	Ŭ.		27
TDP6B 1 0 2		*****	*****	****	1.5	*****	*****			ONCE /	COMP24
EFFLUENT GROSS VALUE	PERMIT LIMIT				DAILY MN			PERCENT		MONTH	OOMI 24
NAME / TITLE PRINCIP.	AL EXECUTIVE	I CERTIFY UNDE	ER PENALTY OF L	AW THAT I H	AVE PERSONALI	Y EXAMINED AN	ND AM FAMILIAR		1		
OFFICER	3		FORMATION SUB							TELEPHONE	DATE
NAI-lea-1 1 1 1			MEDIATELY RESP					See origina			
Michael J. Hor		SUBMITTED INFOI SIGNIFICANT PEI	NALTION IS TRUE					for signa	ture	(617)788-4359	8/30/2002
Chief Operating Officer		S.S.II. 10/11111 E			MPRISONMENT.	,	COOIDIEIT			(0.1.). 30 4000	5.557 2 502
EDA E 0000 4 (00 05) B	()					V NOT DE II			l	D 1 -f 1	

EPA Form 3320-1 (08-95) Previous editions may not be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

Page 1 of 1

PERMITTEE NAME / ADDRESS

MWRA

MWRA

LOCATION BOSTON MA 02129

100 FIRST AVE

BOSTON MA 02129

CHARLESTOWN NAVY YARD

NAME

ADDRESS

FACILITY