N91192.AR.001486
NIROP FRIDLEY, MN
5090.3a

DISCHARGE OF EXTRACTED GROUNDWATER FLOW DATA WITH TRANSMITTAL NIROP FRIDLEY MN
7/20/1999
UNITED DEFENSE

228

United Defense

20 July 1999
E9080/3.3

City of Fridley
6431 University Avenue NE
Fridley, Minnesota 55432

Attention: Water Billing

Subject: Discharge of Extracted Groundwater from Naval Industrial Ordnance Plant (NIROP) System

The NIROP groundwater extraction system did not discharge any ground water to the sanitary sewer system during the second quarter of 1999.

If you have any questions regarding this correspondence, please contact me at (612) 572-6906.

UNITED DEFENSE, L. P.
Armament Systems Division

Timothy R. Ruda

Timothy R. Ruda
Senior Environmental Control Technician

TRR:trr
cc: Joel Sanders, SOUTHDIVNAVFACENGCOM
P. Morrow, NAVSEATECHREP

United Defense LP Armament Systems Division
4800 East River Road Minneapolis Minnesota 55421-1498 Telephone 612 571 9201

United Defense

20 July 1999
E9079/3.3.1

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Minnesota Pollution Control Agency
Division of Water Quality
520 Lafayette Road
St. Paul, Minnesota 55115-4194

Attention: Regulatory Compliance Section

Subject: Second Quarter 1999 Discharge Monitoring Report
Armament Systems Division of United Defense, L. P.
NPDES Permit No. MN0000710

Enclosures: (1) Discharge Monitoring Report for April-June 1999

Enclosed is the completed Discharge Monitoring Report (DMR) for the second quarter (April through June) of 1999, for Armament Systems Division of United Defense, L. P. and the United States Naval Industrial Reserve Ordnance Plant in Fridley, Minnesota, submitted in accordance with the requirements of Condition D.2 of the National Pollutant Discharge Elimination System's permit for this facility.

Please note that on 24 May the flow meter was found damaged by a lightening strike. As a result estimates were used on a portion of the flow to outfall 020 for the months of May and June. At outfall 030 the entire volume was estimated for May and June. The reported flow was calculated utilizing precipitation data and past cooling water flow measurement information. The open channel flow measurement system will return to operation by 23 July.

If there are any questions concerning this letter and enclosed DMR, please contact me at 572-6938.

UNITED DEFENSE, L. P.
Armament Systems Division

Douglas L. Hildre, P.E.
Environmental Affairs Manager

DLH:trr
cc: Joel Sanders, SOUTHDIVNAVFACENGCOM
Mark Sladic, Terta Tech NUS Inc.
Han Maung, Morrison Knudsen Corp.
J. Flora, City of Fridley

PERMITTEE NAME/ADDRESS:

U.S. NAVY/UNITED DEFENSE
4800 EAST RIVER ROAD
FRIDLEY MN 55421

ARMAMENT SYSTEMS DIV
FRIDLEY MN 55421-1498
ATTN: MR. DOUG HILDRE, P.E.

WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	020 M

MONITORING PERIOD	YEAR	MO.	DAY		YEAR	MO.	DAY
FROM	99	04	01	TO	99	04	30

MINOR
(SUBR 06)
F - FINAL
Cooling, GW & runoff
EFFLUENT
*** NO DISCHARGE !__! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	******	******		******	******	13.3	(04)	1/30	Grab
00010 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	26.5 SINGSAMP	DEG.C	ONCE/ MONTH	GRAB
PH	SAMPLE MEASUREMENT	******	******		8.0	******	8.0	(12)	1/30	Grab
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	6.0 DAILY MN	******	9.0 DAILY MX	SU	ONCE/ MONTH	GRAB
METHYLENE CHLORIDE	SAMPLE MEASUREMENT	******	******		******	******	1.13	(28)	2/30	Grab
34423 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	5.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,1-DICHLOROETHANE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
34496 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	70.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,1-DICHLOROETHYLENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
34501 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	6.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,1,1-TRICHLORO-ETHANE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
34506 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	200.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,2-TRANS-DICHLORO-ETHYLENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
34546 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	100.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB

Send white copy with supplemental DMR form by 21st day of month following reporting period to:
MINNESOTA POLLUTION CONTROL AGENCY
520 LAFAYETTE ROAD
ST. PAUL, MINNESOTA 55155
ATTN: W.Q. POINT SOURCE COMPLIANCE

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief the information is true, complete, and accurate.

K B Howe — SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE 7/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION # — ☐ √ IF NEW

COMMENTS:

1)EFL:no floatg solids,foam or film

ND= Not Detected;
Detection Limit =1.0 ug/L

PERMITTEE NAME/ADDRESS:

U.S. NAVY/UNITED DEFENSE
4800 EAST RIVER ROAD
FRIDLEY MN 55421

ARMAMENT SYSTEMS DIV
FRIDLEY MN 55421-1498
ATTN: MR. DOUG HILDRE, P.E.

WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	020 M

MONITORING PERIOD	YEAR	MO.	DAY		YEAR	MO.	DAY
FROM	99	04	01	TO	99	04	30

MINOR
(SUBR 06)
F - FINAL
Cooling, GW & runoff
EFFLUENT
*** NO DISCHARGE ! __ ! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	******		35.278	1.176	---	(03)	Flowmeter	
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	REPORT MO TOTAL	REPORT AVERAGE	OPTIONAL MO MAX	MGD	CONTINUOUS	MEASRD
CARBON DISULFIDE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
77041 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	700.0 DAILY MX	UG/L	TWICE/MONTH	GRAB
TETRACHLOROETHENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
78389 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	3.8 DAILY MX	UG/L	TWICE/MONTH	GRAB
TRICHLOROETHENE	SAMPLE MEASUREMENT	******	******		******	******	1.56	(28)	2/30	Grab
78391 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	5.0 DAILY MX	UG/L	TWICE/MONTH	GRAB
1,2-CIS-DICHLORO-ETHYLENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
81574 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	70.0 DAILY MX	UG/L	TWICE/MONTH	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

Send white copy with supplemental DMR form by 21st day of month following reporting period to:
MINNESOTA POLLUTION CONTROL AGENCY
520 LAFAYETTE ROAD
ST. PAUL, MINNESOTA 55155
ATTN: W.Q. POINT SOURCE COMPLIANCE

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief the information is true, complete, and accurate.

K B Howe — SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE 7/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION # — ☐ √ IF NEW

COMMENTS:

1)EFL:no floatg solids,foam or film

ND= Not Detected;
Detection Limit =1.0 ug/L

PERMITTEE NAME/ADDRESS:

U.S. NAVY/UNITED DEFENSE
4800 EAST RIVER ROAD
FRIDLEY MN 55421

ARMAMENT SYSTEMS DIV
FRIDLEY MN 55421-1498
ATTN: MR. DOUG HILDRE, P.E.

WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	020 M

MONITORING PERIOD	YEAR	MO.	DAY		YEAR	MO.	DAY
FROM	99	05	01	TO	99	05	31

MINOR
(SUBR 06)
F - FINAL
Cooling, GW & runoff
EFFLUENT
*** NO DISCHARGE !__! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	******	******		******	******	16.3	(04)	1/31	Grab
00010 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	26.5 SINGSAMP	DEG.C	ONCE/ MONTH	GRAB
PH	SAMPLE MEASUREMENT	******	******		7.9	******	7.9	(12)	1/31	Grab
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6.0 DAILY MN	******	9.0 DAILY MX	SU	ONCE/ MONTH	GRAB
METHYLENE CHLORIDE	SAMPLE MEASUREMENT	******	******		******	******	* 3.98	(28)	2/31	Grab
34423 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	5.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,1-DICHLOROETHANE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/31	Grab
34496 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	70.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,1-DICHLOROETHYLENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/31	Grab
34501 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	6.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,1,1-TRICHLORO-ETHANE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/31	Grab
34506 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	200.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,2-TRANS-DICHLORO-ETHYLENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/31	Grab
34546 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	100.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB

Send white copy with supplemental DMR form by 21st day of month following reporting period to:
MINNESOTA POLLUTION CONTROL AGENCY
520 LAFAYETTE ROAD
ST. PAUL, MINNESOTA 55155
ATTN: W.Q. POINT SOURCE COMPLIANCE

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief the information is true, complete, and accurate.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE: 7/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION # — ☐ √ IF NEW

COMMENTS:

1)EFL:no floatg solids,foam or film
* Trip Blank = 3.79

ND= Not Detected;
Detection Limit =1.0 ug/L

PERMITTEE NAME/ADDRESS:

U.S. NAVY/UNITED DEFENSE
4800 EAST RIVER ROAD
FRIDLEY MN 55421

ARMAMENT SYSTEMS DIV
FRIDLEY MN 55421-1498
ATTN: MR. DOUG HILDRE, P.E.

WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	020 M

MONITORING PERIOD	YEAR	MO.	DAY		YEAR	MO.	DAY
FROM	99	05	01	TO	99	05	31

MINOR
(SUBR 06)
F - FINAL
Cooling, GW & runoff
EFFLUENT
*** NO DISCHARGE ! ! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	******		29.733	0.959	---	(03)	Flowmeter and Calculation	
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	REPORT MO TOTAL	REPORT AVERAGE	OPTIONAL MO MAX	MGD	CONTINUOUS	MEASRD
CARBON DISULFIDE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/31	Grab
77041 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	700.0 DAILY MX	UG/L	TWICE/MONTH	GRAB
TETRACHLOROETHENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/31	Grab
78389 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	3.8 DAILY MX	UG/L	TWICE/MONTH	GRAB
TRICHLOROETHENE	SAMPLE MEASUREMENT	******	******		******	******	1.32	(28)	2/31	Grab
78391 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	5.0 DAILY MX	UG/L	TWICE/MONTH	GRAB
1,2-CIS-DICHLORO-ETHYLENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/31	Grab
81574 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	70.0 DAILY MX	UG/L	TWICE/MONTH	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

Send white copy with supplemental DMR form by 21st day of month following reporting period to:
MINNESOTA POLLUTION CONTROL AGENCY
520 LAFAYETTE ROAD
ST. PAUL, MINNESOTA 55155
ATTN: W.Q. POINT SOURCE COMPLIANCE

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief the information is true, complete, and accurate.

K B Howe — SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE 7/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION # — ☐ √ IF NEW

COMMENTS:

1)EFL:no floatg solids,foam or film

ND= Not Detected;
Detection Limit =1.0 ug/L

PERMITTEE NAME/ADDRESS:

U.S. NAVY/UNITED DEFENSE
4800 EAST RIVER ROAD
FRIDLEY MN 55421

ARMAMENT SYSTEMS DIV
FRIDLEY MN 55421-1498
ATTN: MR. DOUG HILDRE, P.E.

WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	020 M

MONITORING PERIOD	YEAR	MO.	DAY		YEAR	MO.	DAY
FROM	99	06	01	TO	99	06	30

MINOR
(SUBR 06)
F - FINAL
Cooling, GW & runoff
EFFLUENT
*** NO DISCHARGE !__! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	******	******		******	******	12.8	(04)	1/30	Grab
00010 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	26.5 SINGSAMP	DEG.C	ONCE/ MONTH	GRAB
PH	SAMPLE MEASUREMENT	******	******		7.6	******	7.6	(12)	1/30	Grab
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	6.0 DAILY MN	******	9.0 DAILY MX	SU	ONCE/ MONTH	GRAB
METHYLENE CHLORIDE	SAMPLE MEASUREMENT	******	******		******	******	* 3.63	(28)	2/30	Grab
34423 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	5.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,1-DICHLOROETHANE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
34496 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	70.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,1-DICHLOROETHYLENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
34501 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	6.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,1,1-TRICHLORO-ETHANE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
34506 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	200.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB
1,2-TRANS-DICHLORO-ETHYLENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
34546 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	*****	******	******	100.0 DAILY MX	UG/L	TWICE/ MONTH	GRAB

Send white copy with supplemental DMR form by 21st day of month following reporting period to:
MINNESOTA POLLUTION CONTROL AGENCY
520 LAFAYETTE ROAD
ST. PAUL, MINNESOTA 55155
ATTN: W.Q. POINT SOURCE COMPLIANCE

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief the information is true, complete, and accurate.

K B Howe — SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE 7/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION # — ☐ √ IF NEW

COMMENTS:

1)EFL:no floatg solids,foam or film
* Trip Blank = 3.36

ND= Not Detected;
Detection Limit =1.0 ug/L

PERMITTEE NAME/ADDRESS:

U.S. NAVY/UNITED DEFENSE
4800 EAST RIVER ROAD
FRIDLEY MN 55421

ARMAMENT SYSTEMS DIV
FRIDLEY MN 55421-1498
ATTN: MR. DOUG HILDRE, P.E.

WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	020 M

MONITORING PERIOD	YEAR	MO.	DAY		YEAR	MO.	DAY
FROM	99	06	01	TO	99	06	30

MINOR
(SUBR 06)
F - FINAL
Cooling, GW & runoff
EFFLUENT
*** NO DISCHARGE !__! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	******		27.254	0.908	---	(03)	Flowmeter and Calculation	
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	REPORT MO TOTAL	REPORT AVERAGE	OPTIONAL MO MAX	MGD	CONTINUOUS	MEASRD
CARBON DISULFIDE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
77041 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	700.0 DAILY MX	UG/L	TWICE/MONTH	GRAB
TETRACHLOROETHENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
78389 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	3.8 DAILY MX	UG/L	TWICE/MONTH	GRAB
TRICHLOROETHENE	SAMPLE MEASUREMENT	******	******		******	******	1.84	(28)	2/30	Grab
78391 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	5.0 DAILY MX	UG/L	TWICE/MONTH	GRAB
1,2-CIS-DICHLORO-ETHYLENE	SAMPLE MEASUREMENT	******	******		******	******	ND	(28)	2/30	Grab
81574 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	70.0 DAILY MX	UG/L	TWICE/MONTH	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

Send white copy with supplemental DMR form by 21st day of month following reporting period to:
MINNESOTA POLLUTION CONTROL AGENCY
520 LAFAYETTE ROAD
ST. PAUL, MINNESOTA 55155
ATTN: W.Q. POINT SOURCE COMPLIANCE

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KB Howe — SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE 7/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION # — ☐ √ IF NEW

COMMENTS:

1)EFL:no floatg solids,foam or film

ND= Not Detected;
Detection Limit =1.0 ug/L

PERMITTEE NAME/ADDRESS:

U.S. NAVY/UNITED DEFENSE
4800 EAST RIVER ROAD
FRIDLEY MN 55421

ARMAMENT SYSTEMS DIV
FRIDLEY MN 55421-1498
ATTN: MR. DOUG HILDRE, P.E.

WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	020 Q

MONITORING PERIOD	YEAR	MO.	DAY		YEAR	MO.	DAY
FROM	99	04	01	TO	99	04	30

MINOR
(SUBR 06)
F - FINAL
Quarterly monitoring
EFFLUENT
*** NO DISCHARGE !__! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
IRON, TOTAL (AS FE) 01045 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	******	NA	(28)	1/91	Grab
	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT SINGSAMP	UG/L	QTRLY	GRAB
MANGANESE, TOTAL (AS MN) 01055 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	******	NA	(28)	1/91	Grab
	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT SINGSAMP	UG/L	QTRLY	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

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520 LAFAYETTE ROAD
ST. PAUL, MINNESOTA 55155
ATTN: W.Q. POINT SOURCE COMPLIANCE

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JCBHowe — SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE 1/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION # — ☐ √ IF NEW

COMMENTS:
NA - Not Applicable

PERMITTEE NAME/ADDRESS:

U.S. NAVY/UNITED DEFENSE
4800 EAST RIVER ROAD
FRIDLEY MN 55421

ARMAMENT SYSTEMS DIV
FRIDLEY MN 55421-1498
ATTN: MR. DOUG HILDRE, P.E.

WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	020 Q

MONITORING PERIOD

FROM YEAR	MO.	DAY	TO YEAR	MO.	DAY
99	05	01	99	05	31

MINOR
(SUBR 06)
F - FINAL
Quarterly monitoring
EFFLUENT
*** NO DISCHARGE ! __ ! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
IRON, TOTAL (AS FE) 01045 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	******	NA	(28)	1/91	Grab
	PERMIT REQUIREMENT	******	******	******	******	******	REPORT SINGSAMP	UG/L	QTRLY	GRAB
MANGANESE, TOTAL (AS MN) 01055 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	******	NA	(28)	1/91	Grab
	PERMIT REQUIREMENT	******	******	******	******	******	REPORT SINGSAMP	UG/L	QTRLY	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

Send white copy with supplemental DMR form by 21st day of month following reporting period to:
MINNESOTA POLLUTION CONTROL AGENCY
520 LAFAYETTE ROAD
ST. PAUL, MINNESOTA 55155
ATTN: W.Q. POINT SOURCE COMPLIANCE

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief the information is true, complete, and accurate.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE: 7/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION #

☐ √ IF NEW

COMMENTS:
NA - Not Applicable

PERMITTEE NAME/ADDRESS:

U.S. NAVY/UNITED DEFENSE
4800 EAST RIVER ROAD
FRIDLEY MN 55421

ARMAMENT SYSTEMS DIV
FRIDLEY MN 55421-1498
ATTN: MR. DOUG HILDRE, P.E.

WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	020 Q

MONITORING PERIOD	YEAR	MO.	DAY		YEAR	MO.	DAY
FROM	99	06	01	TO	99	06	30

MINOR
(SUBR 06)
F - FINAL
Quarterly monitoring
EFFLUENT
*** NO DISCHARGE ! __ ! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	******	******		******	******	556	(28)	1/91	Grab
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT SINGSAMP	UG/L	QTRLY	GRAB
MANGANESE, TOTAL (AS MN)	SAMPLE MEASUREMENT	******	******		******	******	258	(28)	1/91	Grab
01055 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT SINGSAMP	UG/L	QTRLY	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

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K B Howe — SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE 7/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION #

☐ √ IF NEW

COMMENTS:

PERMITTEE NAME/ADDRESS:

U.S. NAVY/UNITED DEFENSE
4800 EAST RIVER ROAD
FRIDLEY MN 55421

ARMAMENT SYSTEMS DIV
FRIDLEY MN 55421-1498

ATTN: MR. DOUG HILDRE, P.E.

WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	030 M

MONITORING PERIOD	YEAR	MO.	DAY		YEAR	MO.	DAY
FROM	99	04	01	TO	99	04	30

MINOR
(SUBR 06)
F - FINAL
NC Cooling Water + Runoff
EFFLUENT
*** NO DISCHARGE !__! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	******	******		******	******	11.7	(04)	1/30	Grab
00010 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	********	******	******	26.5 DAILY MX	DEG.C	ONCE/ MONTH	GRAB
PH	SAMPLE MEASUREMENT	******	******		7.4	******	7.4	(12)	1/30	Grab
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	********	6.0 DAILY MN	******	9.0 DAILY MX	SU	ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	******		5.237	0.169	---	(03)	Flowmeter	
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	********	REPORT MO TOTAL	REPORT AVERAGE	REPORT DAILY MX	MGD	CONTINUOUS	MEASRD
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

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K B Howe — SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE 7/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION #

☐ √ IF NEW

COMMENTS:

1)EFL:no floatg solids,foam or film

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ARMAMENT SYSTEMS DIV
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WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	030 M

MONITORING PERIOD						
YEAR	MO.	DAY		YEAR	MO.	DAY
99	05	01	FROM TO	99	05	31

MINOR
(SUBR 06)
F - FINAL
NC Cooling Water + Runof
EFFLUENT
*** NO DISCHARGE !__! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	******	******		******	******	14.8	(04)	1/31	Grab
00010 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	26.5 DAILY MX	DEG.C	ONCE/ MONTH	GRAB
PH	SAMPLE MEASUREMENT	******	******		7.1	******	7.1	(12)	1/31	Grab
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6.0 DAILY MN	******	9.0 DAILY MX	SU	ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	******		2.743	0.088	---	(03)	Precip. Measure & Calculation	
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	REPORT MO TOTAL	REPORT AVERAGE	REPORT DAILY MX	MGD	CONTINUOUS	MEASRD
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

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K Olson — SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE 7/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION #

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COMMENTS:

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WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	030 M

MONITORING PERIOD	YEAR	MO.	DAY		YEAR	MO.	DAY
FROM	99	06	01	TO	99	06	30

MINOR
(SUBR 06)
F - FINAL
NC Cooling Water + Runof
EFFLUENT
*** NO DISCHARGE !__! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	******	******		******	******	16.1	(04)	1/30	Grab
00010 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	********	******	******	26.5 DAILY MX	DEG.C	ONCE/ MONTH	GRAB
PH	SAMPLE MEASUREMENT	******	******		7.5	******	7.5	(12)	1/30	Grab
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	********	6.0 DAILY MN	******	9.0 DAILY MX	SU	ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	******		2.747	0.092	---	(03)	Precip. Measurement & Calculation	
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	********	REPORT MO TOTAL	REPORT AVERAGE	REPORT DAILY MX	MGD	CONTINUOUS	MEASRD
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

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K B Howe — SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT — DATE 7/20/99

SIGNATURE OF CHIEF OPERATOR — DATE — CERTIFICATION #

☐ √ IF NEW

COMMENTS:

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ARMAMENT SYSTEMS DIV
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WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

PERMIT #	OUTFALL #
MN0000710	030 Q

MONITORING PERIOD	YEAR	MO.	DAY		YEAR	MO.	DAY
FROM	99	04	01	TO	99	06	30

MINOR
(SUBR 06)
F - FINAL
COPPER MONITORING
EFFLUENT
*** NO DISCHARGE ! __ ! ***

PARAMETER		QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
COPPER, TOTAL (AS CU) 01042 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	******	0.010	(19)	1/91	Grab
	PERMIT REQUIREMENT	******	******	**** ****	******	******	REPORT QRTR MAX	MG/L	QTRLY	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
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