

Permit

Los Alamos

NATIONAL LABORATORY

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Date: October 19, 1998
In Reply Refer To: ESH-18/WQ&H:98-0358
Mail Stop: K497
Telephone: (505) 665-1859

Ms. Diana Gamble
U.S. Environmental Protection Agency
Compliance Assurance and Enforcement Division
Water Enforcement Branch (6EN-W)
1445 Ross Avenue
Dallas, Texas 75202-2733

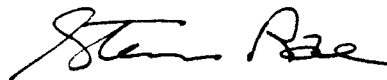
**SUBJECT: REVISED DISCHARGE MONITORING REPORTS (DMRs) FOR
OUTFALLS 051, 05S, AND 13S FOR WATER QUALITY
STANDARDS, NPDES PERMIT NO. NM0028355**

Dear Ms. Gamble:

Enclosed please find Los Alamos National Laboratory's revised Water Quality Standards (WQS) DMRs for Outfalls 051, 05S, and 13S for the period August 1, 1997 to July 31, 1998. In accordance with your request, the "A" at the top of each of these DMRs was changed to a "Y" to reflect "Yearly" test results.

Please contact Mike Saladen at (505) 665-6085 or Carla Jacquez at (505) 665-0450 if you need additional information concerning these DMRs.

Sincerely,



Steven R. Rae
Group Leader
Water Quality and Hydrology Group



15742

RECEIVED

OCT 29 1998

DOE OVERSIGHT BUREAU

Diana Gamble
ESH-18/WQ&H:98-0358

- 2 -

October 19, 1998

CJ:SR/md

Enclosures: a/s

Cy: C. Soden, DOE/AL, Albuquerque, New Mexico, w/enc.
J. Vozella, DOE/LAAO, w/enc., MS A316
G. Saums, NMED, Santa Fe, New Mexico, w/enc.
J. Parker, NMED/AIP, Santa Fe, New Mexico, w/enc.
D. Erickson, LANL, ESH-DO, w/enc., MS K491
S. Hanson, CST-13, w/enc., MS E518
D. Padilla, FSS-8, w/enc., MS K718
WQ&H File, w/enc., MS K497
CIC-10, w/enc., MS A150

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME UNIVERSITY OF CALIFORNIA
ADDRESS LOS ALAMOS NATIONAL LABORATORY
PO BOX 1663; MAIL STOP K490
LOS ALAMOS,, NM 87545

FACILITY

LOCATION Outfall Owner: S. Hanson

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

NM0028355
PERMIT NUMBER

051-A-4
DISCHARGE NUMBER

Revised DMR
Oct. 17, 1998
MAJOR
F - FINAL

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
97 08 01 98 07 31
(120-21) (122-23) (124-25) (126-27) (128-29) (130-31)

INDUST. WASTE TREATMENT DISCHARGE
*** NO DISCHARGE ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (45-53)			(4 Card Only) QUANTITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE (54-55)	MAXIMUM (56-57)	UNITS (58-59)	MINIMUM (39-40)	AVERAGE (41-42)	MAXIMUM (43-44)				UNITS (45-46)
TOTAL ARSENIC	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.00	0.00	MG/L	0	1/YR	GRAB
01002 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	0.04	0.04	MG/L		1/YR	GRAB
TOTAL BORON	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.1	0.1	MG/L	0	2/YR	GRAB
01022 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	5.0	5.0	MG/L		1/YR	GRAB
TOTAL CADMIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.2	0.2	MG/L		1/YR	GRAB
01027 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	0.2	0.2	MG/L		1/YR	GRAB
TOTAL CHROMIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****	5.1	5.1	MG/L		1/YR	GRAB
01034 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	5.1	5.1	MG/L		1/YR	GRAB
TOTAL COBALT	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0	0.0	MG/L	0	2/YR	GRAB
01037 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	1.0	1.0	MG/L		1/YR	GRAB
TOTAL COPPER	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.6	1.6	MG/L		1/YR	GRAB
01042 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	1.6	1.6	MG/L		1/YR	GRAB
TOTAL LEAD	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.4	0.4	MG/L		1/YR	GRAB
01051 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	0.4	0.4	MG/L		1/YR	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 1101 AND 33 U.S.C. 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)				TELEPHONE		DATE			
STEVEN H. RAE ESH-18 GROUP LEADER						505 865-0453		78 8 26			
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE		NUMBER		YEAR MO DAY	

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

Results for Cd, Cr, Cu, and Pb reported in quarterly DMRs per EPA instructions.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME UNIVERSITY OF CALIFORNIA
ADDRESS LOS ALAMOS NATIONAL LABORATORY
PO BOX 1663; MAIL STOP K490
LOS ALAMOS,, NM 87545

FACILITY

LOCATION Outfall Owner: S. Hanson

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

NM0028355
PERMIT NUMBER

051-A
DISCHARGE NUMBER

Revised DMR

02.19.1998

SR

MAJOR
F - FINAL

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
97	08	01	98	07	31
FROM (20-21) (22-23) (24-25)			TO (26-27) (28-29) (30-31)		

INDUST. WASTE TREATMENT DISCHARGE
*** NO DISCHARGE ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUANTITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
TOTAL VANADIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.00	0.00	0	1/YR	GRAB
01087 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.10	0.10		1/YR	GRAB
						DAILY AVG	DAILY MAX			
TOTAL ZINC	SAMPLE MEASUREMENT	*****	*****	*****	*****					
01092 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	95.4	95.4		1/YR	GRAB
						DAILY AVG	DAILY MAX			
TOTAL ALUMINUM	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.1	0.1	0	2/YR	GRAB
01105 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	5.0	5.0		1/YR	GRAB
						DAILY AVG	DAILY MAX			
TOTAL SELENIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.00	0.00	0	1/YR	GRAB
01147 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.05	0.05		1/YR	GRAB
						DAILY AVG	DAILY MAX			
RADIUM-226 + 228	SAMPLE MEASUREMENT	*****	*****	*****	*****					
11503 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	30.0	30.0		1/YR	GRAB
						DAILY AVG	DAILY MAX			
TOTAL MERCURY	SAMPLE MEASUREMENT	*****	*****	*****	*****					
71900 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.01	0.01		1/YR	GRAB
						DAILY AVG	DAILY MAX			
TRITIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****					
82126 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	3000000	3000000	0	1/YR	GRAB
						DAILY AVG	DAILY MAX		1/YR	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)					TELEPHONE		DATE	
STEVEN R. RAE ESH-18 GROUP LEADER							505 665-0453		98 8 26	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					AREA CODE		NUMBER	
									YEAR MO DAY	

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

Results for Zn, Re-226/228, Hg reported in Quarterly DMRs per EPA instructions.
Waste stream survey results for Outfall 051 indicated no accelerator - produced tritium.
Tritium results of 6300 nCi/L is reactor produced.

PERMITTEE NAME/ADDRESS (Include Facility Name/ Location (If Different))

NAME UNIVERSITY OF CALIFORNIA
ADDRESS LOS ALAMOS NATIONAL LABORATORY
PO BOX 1663; MAIL STOP K490
LOS ALAMOS,, NM 87545

FACILITY

LOCATION Outfall Owner: D. Padilla

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

NM0028355
PERMIT NUMBER

05S - 1
DISCHARGE NUMBER

MAJOR
F - FINAL

Oct. 19, 1998

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

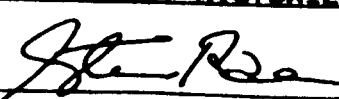
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
97	08	01	98	07	31
(20-21)		(22-23)	(24-25)	(26-27)	(28-29)
		(30-31)			

TREATED SANITARY SEWAGE EFFLUENT

*** NO DISCHARGE X ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUANTITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
TOTAL ARSENIC	SAMPLE MEASUREMENT	*****	*****	*****	*****			0	0/YR	GRAB
01002 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.04	0.04		1/YR	GRAB
						DAILY AVG	DAILY MAX			
TOTAL BORON	SAMPLE MEASUREMENT	*****	*****	*****	*****			0	0/YR	GRAB
01022 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	5.0	5.0		1/YR	GRAB
						DAILY AVG	DAILY MAX			
TOTAL CADMIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****			0	0/YR	GRAB
01027 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.2	0.2		1/YR	GRAB
						DAILY AVG	DAILY MAX			
TOTAL CHROMIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****			0	0/YR	GRAB
01034 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	5.1	5.1		1/YR	GRAB
						DAILY AVG	DAILY MAX			
TOTAL COBALT	SAMPLE MEASUREMENT	*****	*****	*****	*****			0	0/YR	GRAB
01037 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	1.0	1.0		1/YR	GRAB
						DAILY AVG	DAILY MAX			
TOTAL COPPER	SAMPLE MEASUREMENT	*****	*****	*****	*****			0	0/YR	GRAB
01042 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	1.6	1.6		1/YR	GRAB
						DAILY AVG	DAILY MAX			
TOTAL LEAD	SAMPLE MEASUREMENT	*****	*****	*****	*****			0	0/YR	GRAB
01051 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.4	0.4		1/YR	GRAB
						DAILY AVG	DAILY MAX			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1318. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
STEVEN R. RAE ESH-18 GROUP LEADER			505 665-0453	98	8	26
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO

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

Note: Outfall deleted.

Please see EPA letter of March 10, 1998

PERMITTEE NAME/ADDRESS (Include Facility Name/ Location if Different)

NAME UNIVERSITY OF CALIFORNIA
ADDRESS LOS ALAMOS NATIONAL LABORATORY
PO BOX 1663; MAIL STOP K490
LOS ALAMOS,, NM 87545

FACILITY

LOCATION Outfall Owner: D. Padilla

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16)

NM0028355
PERMIT NUMBER

055-170
DISCHARGE NUMBER

Revised DMR

Oct. 17, 1998

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MAJOR
F - FINAL

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
97	08	01	98	07	31
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

TREATED SANITARY SEWAGE EFFLUENT

*** NO DISCHARGE X ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT (46-53)	QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (62-69)			NO. EX (72-73)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
TOTAL VANADIUM 01087 1 0 0	SAMPLE MEASUREMENT *****	*****	*****	*****	*****				0	0/YR	GRAB
	PERMIT REQUIREMENT *****	*****	*****	*****	*****	0.10 DAILY AVG	0.10 DAILY MAX			1/YR	GRAB
TOTAL ZINC 01092 1 0 0	SAMPLE MEASUREMENT *****	*****	*****	*****	*****				0	0/YR	GRAB
	PERMIT REQUIREMENT *****	*****	*****	*****	*****	95.4 DAILY AVG	95.4 DAILY MAX			1/YR	GRAB
TOTAL ALUMINUM 01105 1 0 0	SAMPLE MEASUREMENT *****	*****	*****	*****	*****				0	0/YR	GRAB
	PERMIT REQUIREMENT *****	*****	*****	*****	*****	5.0 DAILY AVG	5.0 DAILY MAX			1/YR	GRAB
TOTAL SELENIUM 01147 1 0 0	SAMPLE MEASUREMENT *****	*****	*****	*****	*****				0	0/YR	GRAB
	PERMIT REQUIREMENT *****	*****	*****	*****	*****	0.05 DAILY AVG	0.05 DAILY MAX			1/YR	GRAB
RADIUM-226 + 228 11503 1 0 0	SAMPLE MEASUREMENT *****	*****	*****	*****	*****				0	0/YR	GRAB
	PERMIT REQUIREMENT *****	*****	*****	*****	*****	30 DAILY AVG	30 DAILY MAX			1/YR	GRAB
TOTAL MERCURY 71900 1 0 0	SAMPLE MEASUREMENT *****	*****	*****	*****	*****				0	0/YR	GRAB
	PERMIT REQUIREMENT *****	*****	*****	*****	*****	0.01 DAILY AVG	0.01 DAILY MAX			1/YR	GRAB
TRITIUM 82126 1 0 0	SAMPLE MEASUREMENT *****	*****	*****	*****	*****				0	0/YR	GRAB
	PERMIT REQUIREMENT *****	*****	*****	*****	*****	3000000 DAILY AVG	3000000 DAILY MAX			1/YR	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER STEVEN R. RAE ESH-18 GROUP LEADER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE 505 665-0453	DATE 98 8 26	
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MO

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

Note: Outfall deleted.

Please see EPA letter of March 10, 1998

PERMITTEE NAME/ADDRESS (Include Facility Name/ Location if Different)

NAME UNIVERSITY OF CALIFORNIA
ADDRESS LOS ALAMOS NATIONAL LABORATORY
PO BOX 1663; MAIL STOP K490
LOS ALAMOS,, NM 87545

FACILITY

LOCATION Outfall Owner: D. Padilla

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

NM0028355
PERMIT NUMBER

13S
DISCHARGE NUMBER

MAJOR
F - FINAL

Revised DMR.

Oct. 17, 1998

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
97	08	01		98	07	31
(20-21) (22-23) (24-25)				(26-27) (28-29) (30-31)		

TREATED SANITARY SEWAGE EFFLUENT
*** NO DISCHARGE ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
TOTAL ARSENIC	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.03	< 0.06	0	2/YR	COMP
01002 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.04	0.04		1/YR	COMP
TOTAL BORON	SAMPLE MEASUREMENT	*****	*****	*****	*****	DAILY AVG	DAILY MAX			
01022 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.2	0.4		2/YR	COMP
TOTAL CADMIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****	5.0	5.0		1/YR	COMP
01027 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	DAILY AVG	DAILY MAX			
TOTAL CHROMIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0	0.0		2/YR	COMP
01034 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.2	0.2		1/YR	COMP
TOTAL COBALT	SAMPLE MEASUREMENT	*****	*****	*****	*****	DAILY AVG	DAILY MAX			
01037 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.0	0.0		2/YR	COMP
TOTAL COPPER	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.0	1.0		1/YR	COMP
01042 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	DAILY AVG	DAILY MAX			
TOTAL LEAD	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0	0.1		2/YR	COMP
01051 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.4	0.4		1/YR	COMP

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

STEVEN R. RAE
ESH-18 GROUP LEADER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1318. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

505 665-0453

DATE

99

AREA
CODE NUMBER

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

Results for As were "less than" 0.06 mg/L.

This results was on a special sample taken for the Permit Re-Ar

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME UNIVERSITY OF CALIFORNIA
ADDRESS LOS ALAMOS NATIONAL LABORATORY
PO BOX 1663; MAIL STOP K490
LOS ALAMOS,, NM 87545

FACILITY
LOCATION Outfall Owner: D. Padilla

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(7-19) (17-19)

NM0028355
PERMIT NUMBER

13S-A
DISCHARGE NUMBER

MAJOR
F - FINAL

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

Revised DMR
Oct. 1, 1998

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
97	08	01		98	07	31
(20-21) (22-23) (24-26)				(26-27) (28-29) (30-31)		

TREATED SANITARY SEWAGE EFFLUENT
*** NO DISCHARGE ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUANTITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
TOTAL VANADIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.01	0.01	0	1/YR	COMP
01087 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.10	0.10		1/YR	COMP
TOTAL ZINC	SAMPLE MEASUREMENT	*****	*****	*****	*****	DAILY AVG	DAILY MAX			
01092 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.1	0.2	0	2/YR	COMP
TOTAL ALUMINUM	SAMPLE MEASUREMENT	*****	*****	*****	*****	95.4	95.4		1/YR	COMP
01105 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	DAILY AVG	DAILY MAX			
TOTAL SELENIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.3	0.5	0	2/YR	COMP
01147 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	5.0	5.0		1/YR	COMP
RADIUM-226 + 228	SAMPLE MEASUREMENT	*****	*****	*****	*****	DAILY AVG	DAILY MAX			
11503 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	0.03	0.05	0	2/YR	COMP
TOTAL MERCURY	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.05	0.05		1/YR	COMP
71900 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	DAILY AVG	DAILY MAX			
TRITIUM	SAMPLE MEASUREMENT	*****	*****	*****	*****	2.2	4.5	0	2/YR	COMP
82126 1 0 0	PERMIT REQUIREMENT	*****	*****		*****	30	30		1/YR	COMP
	SAMPLE MEASUREMENT	*****	*****	*****	*****	DAILY AVG	DAILY MAX			
	PERMIT REQUIREMENT	*****	*****		*****	0.00	0.00	0	2/YR	COMP
	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.01	0.01		1/YR	COMP
	PERMIT REQUIREMENT	*****	*****		*****	DAILY AVG	DAILY MAX			
	SAMPLE MEASUREMENT	*****	*****	*****	*****	50	50	0	1/YR	COMP
	PERMIT REQUIREMENT	*****	*****		*****	3000000	3000000		1/YR	COMP
	SAMPLE MEASUREMENT	*****	*****	*****	*****	DAILY AVG	DAILY MAX			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
STEVEN R. RAE
ESH-18 GROUP LEADER

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
505 665-0453

DATE

TYPED OR PRINTED

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

AREA CODE NUMBER