Created By:	Nicole M. Valerio/USERS/LANL
File name:	Target-ERID # for Domino.txt
Version:	2.0
Document Type:	RPF Record
Description:	RECORDS SUBMITTED BY: PHOEBE SUINA. ADEP

Document Details:

Title:	ERID-101838 1) WASTEWATER STREAM CHARACTERIZATION FOR TA-46-16, 17, 20, 25, 37, 58, 77, 86, 87, 105, 191, 254, 264, 265, 266, 268, 269, 270, 296, 320, AND 400 AT LOS ALAMOS NATIONAL LABORATORY, CHARACTERIZATION REPORT NUMBER 65 2) TARGET (3) FIGURES 1, 2, AND 4 LAB JOB NUMBER 11056-65
ERID Number.StartPage:	ERID-101838
Office of Record:	WES-DO
Date Received:	06/19/2008
Official Use Only:	N
Page Count:	140
Record Type:	Report
Document Date:	02/01/94
To:(Addressees - Organization) *(separate multiple values with semicolons)*	LANL
From:(Senders - Organization) *(separate multiple values with semicolons)*	SANTA FE ENGINEERING, LTD
Other Document Number(s): *(separate multiple values with semicolons)*	65 1725
TA: *separate multiple values with semicolons)*	46
PRS Number(s): *(separate multiple values with semicolons)*	N/A
Record Box Number:	

*** Denotes Fields that are mandatory.**

To download this file, right mouse click on the file and select 'Save to Disk' or 'Save Target as'

Target-ERID # for Domino.txt <-- This link points to this version.

To check-out and/or edit this file, select Edit Document or Check Out Document from the Document menu above.

File Cabinet: Records 2

31058

101838

(140)

WASTEWATER STREAM CHARACTERIZATION FOR TA-46-16, 17, 20, 25, 37, 58, 77, 86, 87, 105, 191, 254, 264, 265, 266, 267, 268, 269, 270, 296, 320 AND 400

at

Los Alamos National Laboratory

ENVIRONMENTAL STUDY

CHARACTERIZATION REPORT # 65

RECEIVED
JUN 19 2008
By

ENVIRONMENTAL MANAGEMENT DIVISION
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Los Alamos

Los Alamos National Laboratory is operated by the University of California for the United States Department of Energy

WASTEWATER STREAM CHARACTERIZATION FOR TA-46-16, 17, 20, 25, 37, 58, 77, 86, 87, 105, 191, 254, 264, 265, 266, 267, 268, 269, 270, 296, 320 AND 400

ENVIRONMENTAL STUDY

prepared for:
THE LOS ALAMOS NATIONAL LABORATORY
Los Alamos, New Mexico

under subcontract 9-XG8-2874P-1

by:
Santa Fe Engineering, Ltd.
1429 Second Street
Santa Fe, New Mexico 87501
(505) 988-7438

December, 1993

UPDATED PER ESH-8 COMMENTS FEBRUARY 1994

EXECUTIVE SUMMARY

Buildings 16, 17, 20, 25, 37, 58, 77, 86, 87, 105, 191, 254, 264, 265, 266, 267, 268, 269, 270, 296, 320 and 400 in TA-46 were visited to document all drain piping and building outflows and to make permitting recommendations. The pipes exiting the building are as follows:

1. from building 46-16: one sanitary sewer to daylight, three air exhaust vents, three emergency shower drains, one air pressure relief vent, four storm water drains, two abandoned pipes, one compressed air tank drain, two water backflow preventer drains and one condensed water drain from HVAC equipment,

2. from building 46-17: one sanitary sewer connection, one water heater pressure relief valve drain, one air compressor exhaust and one water backflow preventer drain,

3. from building 46-25: one sanitary sewer connection to a sewage holding pit, one condensed water drain from HVAC equipment, two compressed air disconnects, two sanitary sewer vents, two nitrogen gas vents, one storm water drain and one water backflow preventer drain,

5. from building 46-37: one sanitary drain to daylight and two air vents,

6. from building 46-58: one sanitary sewer connection, two abandoned pipes and one acid waste drain to seepage pits,

7. from building 46-77: two sanitary drains to daylight, one compressed air pressure relief vent, one oxygen disconnect, one acetylene disconnect, two condensed water drains from HVAC equipment, three fire line drains, one water backflow preventer drain and one abandoned pipe,

8. from building 46-86: one storm water drain,

9. from building 46-87: two abandoned pipes, two storm water drains, one water backflow preventer drain and one fire line drain,

10. from building 46-191: one sanitary sewer connection, one water heater pressure relief valve drain and one water drain from an evaporative cooler,

11. from buildings 46-254, 296, 320 and 400: no water supplies and no drains,

Structures 46-20, 264, 265, 266, 267, 268, 269 and 270 have been salvaged and are no longer at TA-46.

Recommendations for repiping are provided to allow outfall consolidation to minimize permit maintenance requirements and to bring the facility into compliance with the laboratory's NPDES Permit. Floor drain plugging is recommended where the potential of discharge of pollutants exists.

A Waste Stream Database has been prepared listing the waste water and flow rate for each outfall.

TABLE OF CONTENTS

1.0	**INTRODUCTION**	1
2.0	**FIELD INVESTIGATION**	3
3.0	**RECOMMENDATIONS FOR BUILDING 46-16**	4
3.1	Outfall 46-16-OPN-1	4
3.2	Outfalls 46-16-OPN-2 and 46-16-OPN-13	4
3.3	Outfalls 46-16-OPN-3, 46-16-OPN-12 and 46-16-OPN-17	5
3.4	Outfall 46-16-OPN-4	5
3.5	Outfalls 46-16-OPN-5 and 46-16-OPN-8	5
3.6	Outfalls 46-16-OPN-6 and 46-16-OPN-7	5
3.7	Outfalls 46-16-OPN-9 and 46-16-OPN-10	5
3.8	Outfall 46-16-OPN-11	6
3.9	Outfall 46-16-OPN-14	6
3.10	Outfall 46-16-OPN-15	6
3.11	Outfall 46-16-OPN-16	6
3.12	Outfall 46-16-OPN-18	7
4.0	**RECOMMENDATIONS FOR BUILDING 46-17**	7
4.1	Outfall 46-17-OPN-1	7
4.2	Outfall 46-17-OPN-2	7
4.3	Outfall 46-17-OPN-3	8
4.4	Outfall 46-17-OPN-4	8
5.0	**RECOMMENDATION FOR STRUCTURES 46-20, 264, 265, 266, 267, 268, 269 AND 270**	8
6.0	**RECOMMENDATIONS FOR BUILDING 46-25**	8
6.1	Outfall 46-25-OPN-1	9
6.2	Outfall 46-25-OPN-2	9
6.3	Outfalls 46-25-OPN-3 and 46-25-OPN-9	9
6.4	Outfalls 46-25-OPN-4 and 46-25-OPN-7	10
6.5	Outfalls 46-25-OPN-5 and 46-25-OPN-6	10
6.6	Outfall 46-25-OPN-8	10
6.7	Outfall 46-25-OPN-10	10
7.0	**RECOMMENDATIONS FOR BUILDING 46-37**	10
7.1	Outfall 46-37-OPN-1	11
7.2	Outfalls 46-37-OPN-2 and 46-37-OPN-3	11
8.0	**RECOMMENDATIONS FOR BUILDING 46-58**	11
8.1	Outfalls 46-58-OPN-1 and 46-58-OPN-2	12
8.2	Outfall 46-58-OPN-3	12
8.3	Outfall 46-58-OPN-4	13

9.0 RECOMMENDATIONS FOR BUILDING 46-77 13

9.1 Outfall 46-77-OPN-1 13
9.2 Outfall 46-77-OPN-2 14
9.3 Outfall 46-77-OPN-3 14
9.4 Outfalls 46-77-OPN-4 and 46-77-OPN-8 14
9.5 Outfalls 46-77-OPN-5, 46-77-OPN-9 and 46-77-OPN-10 14
9.6 Outfalls 46-77-OPN-6 and 46-77-OPN-7 14
9.7 Outfall 46-77-OPN-11 15
9.8 Outfall 46-77-OPN-12 15

10.0 RECOMMENDATIONS FOR BUILDING 46-86 15

10.1 Outfall 46-86-OPN-1 16

11.0 RECOMMENDATIONS FOR BUILDING 46-87 16

11.1 Outfall 46-87-OPN-1 17
11.2 Outfall 46-87-OPN-2 17
11.3 Outfall 46-87-OPN-3 17
11.4 Outfall 46-87-OPN-4 17
11.5 Outfall 46-87-OPN-5 18
11.6 Outfall 46-87-OPN-6 18

12.0 RECOMMENDATIONS FOR BUILDING 46-105 18

13.0 RECOMMENDATIONS FOR BUILDING 46-191 18

13.1 Outfall 46-191-OPN-1 19
13.2 Outfall 46-191-OPN-2 19
13.3 Outfall 46-191-OPN-3 19

14.0 RECOMMENDATIONS FOR BUILDINGS 46-254, 296, 320, AND 400 19

15.0 CONCLUSION 20

APPENDICES

APPENDIX 1 - DRAIN SUMMARY TABLES
APPENDIX 2 - WASTE STREAM CHARACTERIZATION DATABASE
APPENDIX 3 - EPA FORMS
APPENDIX 4 - DYE STUDY INFORMATION
APPENDIX 5 - DRAIN SCHEMATICS

LIST OF FIGURES

1. TA-46 SITE PLAN
2. TA-46-16 BUILDING DRAIN SCHEMATIC
3. TA-46-17 BUILDING DRAIN SCHEMATIC
4. TA-46-25 BUILDING DRAIN SCHEMATIC
5. TA-46-37 BUILDING DRAIN SCHEMATIC
6. TA-46-58 BUILDING DRAIN SCHEMATIC
7. TA-46-77 BUILDING DRAIN SCHEMATIC
8. TA-46-86 BUILDING DRAIN SCHEMATIC
9. TA-46-87 BUILDING DRAIN SCHEMATIC
10. TA-46-191 BUILDING DRAIN SCHEMATIC

LIST OF TABLES

1. TA-46-16 DRAIN SUMMARY
2. TA-46-17 DRAIN SUMMARY
3. TA-46-25 DRAIN SUMMARY
4. TA-46-37 DRAIN SUMMARY
5. TA-46-58 DRAIN SUMMARY
6. TA-46-77 DRAIN SUMMARY
7. TA-46-86 DRAIN SUMMARY
8. TA-46-87 DRAIN SUMMARY
9. TA-46-191 DRAIN SUMMARY
10. NON-DRAIN RECOMMENDATIONS
11. ABBREVIATIONS

1.0 INTRODUCTION

During March and April, 1993, Mark Wendt of Santa Fe Engineering (SFE) toured buildings 16, 17, 20, 25, 37, 58, 77, 86, 87, 105, 191, 254, 264, 265, 266, 267, 268, 269, 270, 296, 320 and 400 at TA-46. The purpose of this study is to identify building drain piping, locate outfalls which discharge into the environment and to characterize the wastewater flows and sources existing at the time of the visit. This report will not reflect any subsequent changes in piping or operations. The Waste Steam Characterization Policy of September 10, 1992 was followed for this study. The following tasks were performed for this purpose:

1. Building drains and all piping exiting the building were identified and laid out in schematic form;

2. Wastewater sources were identified at each drain and the wastewater was characterized according to the flow rate and quality. The location of outfalls and their potential sources of discharges were determined. Potential pollutants were also noted;

3. Permit applications for discharges of clean water were not prepared since these discharges do not require permitting at this time and

4. Potential problems were identified and recommendations were made for repiping, floor drain plugging and spill containment where deemed appropriate.

The field investigation proceeded by verifying drain schematic drawings prepared by SFE for the appropriate buildings (Figures 1 through 10) from drawings provided by Los Alamos National Laboratory (LANL) Facilities Engineering Division. The other buildings were visited to insure that no drains exist for the buildings. The following process was used to define drain piping and characterize the wastewater streams:

1. Laboratory engineering drawings were used to prepare the SFE drain piping schematic. The Solid Waste Stream Characterization conducted by IT Corporation was reviewed. The National Pollutant Discharge Elimination System (NPDES) Permit, the 1990 NPDES Permit Application submitted by Los Alamos National Laboratory (LANL) in September, 1990, the latest Federal Facilities Compliance Agreement (FFCA) between the Department of Energy (DOE) and the Environmental Protection Agency (EPA) and the Administrative Order (AO) Docket Number VI-92-1306 issued by EPA to the University of California were used for reference;

2. A site visit was performed to verify the SFE drain schematics and to identify potential outfall pipes exiting the building. The visit entailed a room by room inspection of wastewater sources and drains. Interviews with site personnel were conducted to assist in waste stream characterization and

3. SFE verified drain piping by dye checking.

2.0 FIELD INVESTIGATION

The pipes exiting the building have been assigned an Outlet Piping Number. The four part number, sequentially, identifies the Technical Area where the pipe is located, the building from which the pipe discharges, the letters OPN to indicate that it is an outlet piping number and the unique number for the pipe. The piping exiting the building will be labeled for easy identification in the future.

Each drain has a unique identification number. Each number consists of three parts. The first part is the floor the drain is on. The second part has letters that indicate the drain type (abbreviations used are summarized in Table 11). The final part is a unique number for each drain. For example, the floor drain numbering on the first floor would start with 1FD1. The roof drains do not have the number identifying the floor such as RD1 for Roof Drain 1.

The function of each pipe exiting from buildings are listed in Appendix 1, Tables 1 through 9, with non-drain recommendations listed in Table 10 and abbreviations listed in Table 11. Appendix 2 contains the wastestream characterization database output, listing wastewater source, flow rates and periodicity information for each outfall drain. Completed EPA forms are in Appendix 3 for appropriate outfalls. Appendix 4 provides information about the dye study of building drains. Flow schematics of the drains from each building are attached in Appendix 5 as Figures 2 through 10. A Site Plan is included in Appendix 5 as Figure 1 illustrating the locations of buildings included in this report.

3.0 RECOMMENDATIONS FOR BUILDING 46-16

Table 1 is a list of the drains to the building outfalls and Figure 2 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations. This building is listed as Test Building No. 1 and is occupied by MEE-13 division.

3.1 Outfall 46-16-OPN-1

This outfall receives sanitary flow from thirteen floor drains, one cup drain, four sinks and one water heater and discharges to daylight into Cañada Del Buey. It is recommended all of these drains be re-routed to the sanitary sewer system and the existing outfall pipe be plugged. Floor drains BFD7 and BFD8 are supposed to be located in the pit below the DC generator on the east side of the building, according to the building manager, Lee Dalton. This was not verified due to the inaccessible location of the drains. It is recommended that the user group verify the location and destination of these drains and report their findings to EM-8 for possible corrective actions. An EPA 2D Form is enclosed in Appendix 3 for this outfall, however, permitting is not recommended.

3.2 Outfalls 46-16-OPN-2 and 46-16-OPN-13

These outfalls are air exhaust vents from test cells which discharge to the atmosphere next to the building. No permitting or piping changes are recommended for these outfalls and no EPA forms were prepared.

3.3 Outfalls 46-16-OPN-3, 46-16-OPN-12 and 46-16-OPN-17

These outfalls are emergency shower drains (one per outfall) located exterior of the building on the wall which drain to daylight next to the building. It is recommended these outfalls be covered by a Notice Of Intent (NOI) to Discharge. No piping changes are recommended for these outfalls and no EPA forms were prepared.

3.4 Outfall 46-16-OPN-4

This outfall is a compressed air tank air pressure relief valve discharging to the atmosphere next to the building. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

3.5 Outfalls 46-16-OPN-5 and 46-16-OPN-8

These outfalls receive storm water flow from the roof of the building and drain to daylight next to the building. No permitting or piping changes are recommended for these outfalls and no EPA forms were prepared.

3.6 Outfalls 46-16-OPN-6 and 46-16-OPN-7

These outfalls receive storm water flow from two roof mounted exhaust fan drip pans and discharge to daylight next to the building. No permitting or piping changes are recommended for these outfalls and no EPA forms were prepared.

3.7 Outfalls 46-16-OPN-9 and 46-16-OPN-10

These two outfalls are abandoned pipes terminating to daylight next to the building. It is recommended these two pipes be removed and the resulting wall openings sealed

shut. No permitting is recommended for these outfalls and no EPA forms were prepared.

3.8 Outfall 46-16-OPN-11

This outfall is a drain line from a compressed air tank located next to the building which discharges to daylight. It is recommended that the liquid from this discharge be containerized at the unit. No permitting is recommended for this outfall and no EPA forms were prepared.

3.9 Outfall 46-16-OPN-14

This outfall is an air vent which discharges to the atmosphere next to the building. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

3.10 Outfall 46-16-OPN-15

This outfall is a water backflow preventer drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

3.11 Outfall 46-16-OPN-16

This outfall is a condensed water drain from a HVAC cooling unit and discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

3.12 Outfall 46-16-OPN-18

This outfall is a water backflow preventer drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

4.0 RECOMMENDATIONS FOR BUILDING 46-17

Table 2 is a list of the drains to the building outfalls and Figure 3 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations. There are four compressed air filter units located in this mechanical building with drain terminating in the tunnel below the floor. It is recommended this drain be containerized at the filters and the remaining piping be removed.

4.1 Outfall 46-17-OPN-1

This outfall is a water heater pressure relief valve drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

4.2 Outfall 46-17-OPN-2

This outfall is an air compressor exhaust vent to the atmosphere next to the building. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

4.3 Outfall 46-17-OPN-3

This outfall is a water backflow preventer drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

4.4 Outfall 46-17-OPN-4

This outfall receives sanitary flow from one equipment drain, one lavatory, one sink, one toilet and one urinal and drains to a manhole which flows to the Sanitary Wastewater Systems Consolidation (SWSC) Plant at TA-46. There is an air compressor and an air dryer unit in the mechanical room with drain lines discharging into equipment drain 1ED1. It is recommended that the liquid from these lines be containerized at the units and the remaining piping to the equipment drain be removed. No permitting is recommended for this outfall and no EPA forms were prepared.

5.0 RECOMMENDATIONS FOR STRUCTURES 46-20, 264, 265, 266, 267, 268, 269 AND 270

These structures include one hose house and seven solar test cells which have been removed from the site and salvaged. This information was obtained from Joyce Martinez of EM-7 and Jim Mork of the JCI as-built section. No permitting or piping changes are required and no EPA forms were prepared.

6.0 RECOMMENDATIONS FOR BUILDING 46-25

Table 3 is a list of the drains to the building outfall and Figure 4 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The

discussion below gives the reasoning for the recommendations.

6.1 Outfall 46-25-OPN-1

This outfall discharges condensed water from a cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

6.2 Outfall 46-25-OPN-2

This outfall receives sanitary flow from two sinks, one water fountain and two cup drains and flows below grade into a sewage holding pit located in building TA-16-87 approximately 150 feet to the north of this building. The holding pit is periodically pumped out by SWSC Plant personnel and transported to the treatment plant. This is performed on an as-needed basis, the last time being approximately one to one and one-half years ago, according to Ramiro Marquez of SWSC plant operations. See Section 12.0 for more information concerning this sewage holding pit. It is recommended that this outfall be re-routed to the sanitary sewer system and the remaining piping to the sewage holding pit be plugged. The pit should then be decommissioned according to Laboratory policy. No permitting is recommended for this outfall and no EPA forms were prepared.

6.3 Outfalls 46-25-OPN-3 and 46-25-OPN-9

These outfalls are compressed air quick-disconnects terminating to daylight next to the building. No permitting or piping changes are recommended for these outfalls and no EPA forms were prepared.

6.4 Outfalls 46-25-OPN-4 and 46-25-OPN-7

These outfalls are sanitary sewer vents discharging to the atmosphere next to the building. No permitting or piping changes are recommended for these outfalls and no EPA forms were prepared.

6.5 Outfalls 46-25-OPN-5 and 46-25-OPN-6

These outfalls are nitrogen gas vents discharging to the atmosphere next to the building. No permitting or piping changes are required for these outfalls and no EPA forms were prepared.

6.6 Outfall 46-25-OPN-8

This outfall receives storm water flow from two roof drains on the building and discharges to daylight next to the building. No permitting or piping changes are required for this outfall and no EPA forms were prepared.

6.7 Outfall 46-25-OPN-10

This outfall is a water backflow preventer drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

7.0 RECOMMENDATIONS FOR BUILDING 46-37

Table 4 is a list of the drains to the building outfall and Figure 5 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

7.1 Outfall 46-37-OPN-1

This outfall receives flow from two floor drains and drains to daylight at the bottom of the earthen embankment immediately to the east of this building. This outfall should be temporarily covered by an NOI. Floor drain 1FD1, located in mechanical room 100, has a boiler pressure relief valve drain, a water backflow preventer drain and an expansion tank drain flowing into it. It is recommended that this outfall be connected to the sanitary sewer main adjacent to the building (see site plan). If this cannot be accomplished, it is recommended that these three sources be routed through the exterior wall and terminated to daylight next to the building. These new outfalls should then be covered by an NOI. Plugging floor drains 1FD1 and 1FD2 and eliminating the existing outfall to daylight is also recommended. No EPA forms were prepared for this outfall.

7.2 Outfalls 46-37-OPN-2 and 46-37-OPN-3

These outfalls are abandoned pipes exiting the building to daylight. It is recommended these two pipes be removed and the remaining wall openings be sealed shut. No permitting is required for these outfalls and no EPA forms were prepared.

8.0 RECOMMENDATIONS FOR BUILDING 46-58

Table 5 is a list of the drains to the building outfalls and Figure 6 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations. There are two waste seepage pits with concrete walls and metal covers located below grade just to the north of this building that were being utilized at the

time of the site investigation. These pits receive flow from a fume hood sink and a laboratory sink (see Section 8.2). There is a possibility that some hazardous components were drained into these seepage pits from past experiments. It is recommended the liquid in these two pits be drained and the pits be decommissioned according to Laboratory policy. The inlet pipe to the pits should be permanently plugged where it exits the building. It is also recommended that the soil around and below these two seepage pits be sampled for contamination as soon as possible. A copy of the results of this soil sampling shall be forwarded to EM-8 for review and possible further action.

8.1 Outfalls 46-58-OPN-1 and 46-58-OPN-2

These two outfalls are abandoned pipes exiting the building to daylight. It is recommended these two pipes be removed and the remaining wall openings sealed shut. No permitting or piping changes are recommended for these outfalls and no EPA forms were prepared.

8.2 Outfall 46-58-OPN-3

This outfall receives flow from one fume hood sink and one hand washing sink and flows below grade to two seepage pits located just to the north of the building. It is recommended that the fume hood sink, 1SD1, be eliminated and the drain line plugged. The hand washing sink, 1SD2, should be re-routed to the sanitary sewer system in the building. No permitting is recommended for this outfall, however, an EPA Form 2D has been prepared and is contained in Appendix 3.

8.3 Outfall 46-58-OPN-4

This outfall receives sanitary flow from one cup drain, one floor drain, one floor sink, one lavatory, one urinal, one toilet, one sink, one shower and one water fountain and drains to a manhole which flows to the SWSC Plant at TA-46. It is recommended that cup drain, 1CD1, be eliminated and the drain line for the water fountain be directly connected to the sanitary sewer system at the point were the cup drain is currently located. There is an air compressor, an air dryer and a compressed air storage tank located in mechanical room 100 which have drain lines discharging into floor sink 1FS1. It is recommended that the liquid from each of these drains be containerized at the units and the remaining piping to the floor sink be removed. No permitting is recommended for this outfall and no EPA forms were prepared.

9.0 RECOMMENDATIONS FOR BUILDING 46-77

Table 6 is a list of the drains to the building outfalls and Figure 7 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

9.1 Outfall 46-77-OPN-1

This outfall is a compressed air tank pressure relief valve which discharges to the atmosphere next to the building. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

9.2 Outfall 46-77-OPN-2

This outfall is an oxygen quick disconnect terminating to daylight next to the building. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

9.3 Outfall 46-77-OPN-3

This outfall is an acetylene quick disconnect terminating to daylight next to the building. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

9.4 Outfalls 46-77-OPN-4 and 46-77-OPN-8

These outfalls are air conditioning unit condensed water drains discharging to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended for these outfalls and no EPA forms were prepared.

9.5 Outfalls 46-77-OPN-5, 46-77-OPN-9 and 46-77-OPN-10

These outfalls are fire line drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended for these outfalls and no EPA forms were prepared.

9.6 Outfalls 46-77-OPN-6 and 46-77-OPN-7

These two outfalls receive flow from a water fountain and a sink and discharge to daylight next to the building. It is recommended that water fountain, 1WF1, and sink, 1SD1, be removed and their drain lines plugged at both ends. An EPA

2D Form is enclosed in Appendix 3 for each of these two outfalls, however, permitting is not recommended.

9.7 Outfall 46-77-OPN-11

This outfall is an abandoned pipe exiting the building. It is recommended that this pipe be removed and the remaining wall opening be sealed shut. No permitting is recommended for this outfall and no EPA forms were prepared.

9.8 Outfall 46-77-OPN-12

This outfall is a water backflow preventer drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

10.0 RECOMMENDATIONS FOR BUILDING 46-86

Table 7 is a list of the drains to the building outfalls and Figure 8 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations. This structure is an abandoned cooling tower which has not been in operation for over five years according to Tom Brunton of ENG-6 and there is no existing EPA permit. There is an abandoned outfall at the rim of Cañada Del Buey which is believed to be associated with this cooling tower, according to Mr. Brunton. It is recommended that the responsible group verify the origin of this outfall pipe and report their findings to EM-8 for possible further action.

10.1 Outfall 46-86-OPN-1

This outfall receives storm water flow from the abandoned cooling tower basin and drains to daylight into Cañada Del Buey. It is recommended that this outfall be eliminated once the cooling tower is removed and the water basin is decommissioned and backfilled. No permitting is recommended for this outfall and no EPA forms were prepared.

11.0 RECOMMENDATIONS FOR BUILDING 46-87

Table 8 is a list of the drains to the building outfalls and Figure 9 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations. This building is currently being used as a storage building for water treatment chemicals such as Sodium Hydroxide liquid and Ethylene Glycol. It is highly recommended that these 55-gallon drums of chemicals be provided with proper labeling and secondary containment pallets. There are a number of 55-gallon drums with unknown contents located exterior of the building on the west side. It is recommended the user group verify the contents of these drums and label them according to Laboratory Policy. If the contents are found to be hazardous, the drums should be relocated to a designated 90-day satellite storage area with adequate secondary containment. This building contains a concrete-lined sanitary sewage holding pit below the floor. It receives effluent from two cup drains, two sinks and one water fountain located in building TA-46-25. This holding pit is pumped out periodically by SWSC Plant personnel and the waste is transported to the SWSC Plant for proper treatment. It is recommended that the sanitary line from building 46-25 be re-routed to the sanitary sewer system (see Section 6.2 of this report). The inlet pipe to

the sewage holding pit can then be plugged and the pit decommissioned according to Laboratory policy.

11.1 Outfall 46-87-OPN-1

This outfall is an abandoned pipe exiting the building to daylight. It is recommended that this pipe be removed and the remaining wall opening sealed shut. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

11.2 Outfall 46-87-OPN-2

This outfall receives storm water flow from two roof drains on the building and discharges to daylight into Cañada Del Buey. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

11.3 Outfall 46-87-OPN-3

This outfall was once used as a drain for the sanitary sewage holding pit located in the floor of this building. It has since been plugged inside the building and is no longer used. It is recommended that this outfall pipe also be plugged at the canyon. No permitting is recommended for this outfall and no EPA forms were prepared.

11.4 Outfall 46-87-OPN-4

This outfall discharges storm water into Cañada Del Buey from an abandoned cooling tower water sump pit. The cooling tower has not been in operation for over five years and there is no existing EPA permit. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

11.5 Outfall 46-87-OPN-5

This outfall is from a water backflow preventer drain and an emergency eye wash unit and discharges to daylight into the crawl-space below the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

11.6 Outfall 46-87-OPN-6

This outfall is a fire line drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

12.0 RECOMMENDATIONS FOR BUILDING 46-105

This structure is an oil-filled electrical transformer which contains PCB's. The transformer has a secondary containment berm currently in place. This existing berm does not have the capacity to contain both the oil from the transformer, in the case of a spill, and storm water at the same time. It is recommended that this transformer be provided with a roofed shelter over it to keep storm water out of the secondary containment berm. No permitting is recommended for this outfall and no EPA forms were prepared.

13.0 RECOMMENDATIONS FOR BUILDING 46-191

Table 9 is a list of the drains to the building outfalls and Figure 10 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

13.1 Outfall 46-191-OPN-1

This outfall is a water heater pressure relief valve drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

13.2 Outfall 46-191-OPN-2

This outfall receives sanitary flow from one lavatory and one toilet and drains to a manhole which flows to the SWSC Plant at TA-46. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

13.3 Outfall 46-191-OPN-3

This outfall is a water drain from an evaporative cooler which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

14.0 RECOMMENDATIONS FOR BUILDINGS 46-254, 296, 320 AND 400

Office building 46-254 and transportainers 46-296, 320 and 400 were investigated and found to not have any water or drains. No permitting or piping changes are recommended for these buildings and no EPA forms were prepared.

15.0 CONCLUSION

This document provides the information to characterize buildings 16, 17, 20, 25, 37, 58, 77, 86, 87, 105, 191, 254, 264, 265, 266, 267, 268, 269, 270, 296, 320 and 400 at TA-46.

Form 2D:

1. 46-16-OPN-1 2. 46-58-OPN-3 3. 46-77-OPN-6
4. 46-77-OPN-7

Permitting is not recommended for the following outfalls, as itemized below.

Discharges to the SWSC Plant:

1. 46-17-OPN-4 2. 46-58-OPN-4 3. 46-191-OPN-2

Discharges to a sanitary sewage holding pit:

1. 46-25-OPN-2

Discharge from the fire system:

1. 46-77-OPN-5 2. 46-77-OPN-9 3. 46-77-OPN-10
4. 46-87-OPN-6

Discharges of condensed water:

1. 46-16-OPN-16 2. 46-25-OPN-1 3. 46-77-OPN-4
4. 46-77-OPN-8

Discharges of storm water:

1. 46-16-OPN-5 2. 46-16-OPN-6 3. 46-16-OPN-7
4. 46-16-OPN-8 5. 46-25-OPN-8 6. 46-86-OPN-1
7. 46-87-OPN-2 8. 46-87-OPN-4

Discharges from emergency showers:

1. 46-16-OPN-3 2. 46-16-OPN-12 3. 46-16-OPN-17

Discharges from water backflow preventers:

1. 46-16-OPN-15 2. 46-16-OPN-18 3. 46-17-OPN-3

4. 46-25-OPN-10 5. 46-77-OPN-12

Discharges from sanitary sewer vents:

1. 46-25-OPN-4 2. 46-25-OPN-7

Discharges from nitrogen gas vents:

1. 46-25-OPN-5 2. 46-25-OPN-6

Abandoned outfalls:

1. 46-16-OPN-9 2. 46-16-OPN-10 3. 46-58-OPN-1
4. 46-58-OPN-2 5. 46-77-OPN-11 6. 46-87-OPN-1
7. 46-87-OPN-3

Miscellaneous discharges:

1. 46-16-OPN-2 2. 46-16-OPN-4 3. 46-16-OPN-11
4. 46-16-OPN-13 5. 46-16-OPN-14 6. 46-17-OPN-1
7. 46-17-OPN-2 8. 46-25-OPN-3 9. 46-25-OPN-9
10. 46-37-OPN-1 11. 46-37-OPN-2 12. 46-37-OPN-3
13. 46-77-OPN-1 14. 46-77-OPN-2 15. 46-77-OPN-3
16. 46-87-OPN-5 17. 46-191-OPN-1 18. 46-191-OPN-3

Buildings with no drains:

1. 46-105 2. 46-254 3. 46-296 4. 46-320
5. 46-400

Buildings that have been removed from the site and salvaged:

1. 46-20 2. 46-264 3. 46-265 4. 46-266
5. 46-267 6. 46-268 7. 46-269 8. 46-270

Recommended corrective actions are outlined in Tables 1 through 10 as well as in the above text. Corrective action should be performed as soon a practical to minimize the chance of unpermitted discharge of pollutants.

TABLE 1: TA 46-16 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-16-OPN-1 DAYLIGHT	BFD1	BASEMENT	N/A	PLUGGED	YES
	BFD2	BASEMENT	N/A	PIPE TO S.S.	
	BFD3	BASEMENT	N/A	PIPE TO S.S.	
	BFD4	BASEMENT	N/A	PIPE TO S.S.	
	BFD5	BASEMENT	N/A	PIPE TO S.S.	
	BFD6	BASEMENT	N/A	PIPE TO S.S.	
	BFD7	GENERATOR PIT	N/A	VERIFY	
	BFD8	GENERATOR PIT	N/A	VERIFY	
	BSD1	BASEMENT	N/A	PIPE TO S.S.	
	1CD2	LABORATORY	3	PIPE TO S.S.	
	1FD1	LABORATORY	2	PLUGGED	
	1FD2	LABORATORY	4	PIPE TO S.S.	
	1FD3	LABORATORY	6	PIPE TO S.S.	
	1FD4	LABORATORY	7	PIPE TO S.S.	
	1FD5	LABORATORY	8	PIPE TO S.S.	
	1FD6	LABORATORY	8	PIPE TO S.S.	
	1SD1	LABORATORY	3	PIPE TO S.S.	
	1SD2	LABORATORY	2	PIPE TO S.S.	
	1SD3	LABORATORY	8	PIPE TO S.S.	
46-16-OPN-2	N/A	AIR EXHAUST	2	NO CHANGE	NO
46-16-OPN-3	1ESH2	EMERGENCY SHOWER	EXTER.	NOI	NO
46-16-OPN-4	N/A	AIR PRESS. RELIEF	9	NO CHANGE	NO
46-16-OPN-5 STORM	N/A	ROOF	N/A	NO CHANGE	NO
46-16-OPN-6 STORM	N/A	ROOF	N/A	NO CHANGE	NO
46-16-OPN-7 STORM	N/A	ROOF	N/A	NO CHANGE	NO
46-16-OPN-8 STORM	N/A	ROOF	N/A	NO CHANGE	NO
46-16-OPN-9	N/A	ABANDONED PIPE	8	ELIMINATE	NO
46-16-OPN-10	N/A	ABANDONED PIPE	8	ELIMINATE	NO
46-16-OPN-11	N/A	COMPR. AIR TANK DRAIN	EXTER.	CONTAINERIZE	NO
46-16-OPN-12	1ESH3	EMERGENCY SHOWER	EXTER.	NOI	NO
46-16-OPN-13	N/A	AIR EXHAUST VENT	6	NO CHANGE	NO
46-16-OPN-14	N/A	AIR VENT	6	NO CHANGE	NO
46-16-OPN-15	N/A	WATER BFP DRAIN	5A	NOI	NO
46-16-OPN-16	N/A	CONDENSED WATER	4	NOI	NO
46-16-OPN-17	1ESH1	EMERGENCY SHOWER	EXTER.	NOI	NO
46-16-OPN-18	1CD1	WATER BFP DRAIN	3	NOI	NO

TABLE 2: TA 46-17 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-17-OPN-1	1WH1	WATER HEATER DRAIN	N/A	NOI	NO
46-17-OPN-2	N/A	AIR COMPRESSOR EXH.	N/A	NO CHANGE	NO
46-17-OPN-3	N/A	WATER BFP DRAIN	N/A	NOI	NO
46-17-OPN-4 SANITARY	1ED1	MECHANICAL ROOM	N/A	CONTAINERIZE	NO
	1LV1	MECHANICAL ROOM	N/A	NO CHANGE	
	1SD1	MECHANICAL ROOM	N/A	NO CHANGE	
	1TL1	MECHANICAL ROOM	N/A	NO CHANGE	
	1UR1	MECHANICAL ROOM	N/A	NO CHANGE	

TABLE 3: TA 46-25 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-25-OPN-1	N/A	CONDENSED WATER	EXTER.	NOI	NO
46-25-OPN-2 SANITARY HOLDING TANK	1CD2	LABORATORY	100	PLUGGED	NO
	1CD3	LABORATORY	100	PLUGGED	
	1CD4	LABORATORY	100	PLUGGED	
	1CD5	LABORATORY	100	PLUGGED	
	1CD6	LABORATORY	100	PLUGGED	
	1CD7	LABORATORY	100	PIPE TO S.S.	
	1CD8	LABORATORY	100	PLUGGED	
	1CD9	LABORATORY	100	PIPE TO S.S.	
	1SD1	METAL FABRICATN. SHOP	104	PIPE TO S.S.	
	1SD2	LABORATORY	100	PIPE TO S.S.	
	1WF1	LABORATORY	100	PIPE TO S.S.	
46-25-OPN-3	N/A	COMPR. AIR DISCONNECT	100	NO CHANGE	NO
46-25-OPN-4	N/A	SAN. SEWER VENT	100	NO CHANGE	NO
46-25-OPN-5	N/A	NITROGEN GAS VENT	100	NO CHANGE	NO
46-25-OPN-6	N/A	NITROGEN GAS VENT	100	NO CHANGE	NO
46-25-OPN-7	N/A	SAN. SEWER VENT	100	NO CHANGE	NO
46-25-OPN-8 STORM	RD1	ROOF	N/A	NO CHANGE	NO
	RD2	ROOF	N/A	NO CHANGE	
46-25-OPN-9	N/A	COMPR. AIR DISCONNECT	100	NO CHANGE	NO
46-25-OPN-10	1CD1	WATER BFP DRAIN	100	NOI	NO

TABLE 4: TA 46-37 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-37-OPN-1 DAYLIGHT	1FD1	MECHANICAL ROOM	100	ROUTE TO S.S. NOI	NO
	1FD2	LABORATORY	101	PIPE TO S.S. NOI	
46-37-OPN-2	N/A	AIR VENT	101	ELIMINATE	NO
46-37-OPN-3	N/A	AIR VENT	101	ELIMINATE	NO

TABLE 5: TA 46-58 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-58-OPN-1	N/A	ABANDONED PIPE	106	ELIMINATE	NO
46-58-OPN-2	N/A	ABANDONED PIPE	106	ELIMINATE	NO
46-58-OPN-3 SEEPAGE PITS(2)	1SD1	LABORATORY	106	ELIMINATE	YES
	1SD2	LABORATORY	106	PIPE TO S.S.	
46-58-OPN-4 SANITARY	1CD1	LABORATORY	106	MODIFY	NO
	1FD1	BATHROOM	103	NO CHANGE	
	1FS1	MECHANICAL ROOM	100	CONTAINERIZE	
	1LV1	BATHROOM	103	NO CHANGE	
	1SD3	MECHANICAL ROOM	100	NO CHANGE	
	1SH1	BATHROOM	104	NO CHANGE	
	1TL1	BATHROOM	105	NO CHANGE	
	1UR1	BATHROOM	103	NO CHANGE	
	1WF1	LABORATORY	106	MODIFY	

TABLE 6: TA 46-77 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-77-OPN-1	N/A	COMPR. AIR VENT	N/A	NO CHANGE	NO
46-77-OPN-2	N/A	OXYGEN DISCONNECT	N/A	NO CHANGE	NO
46-77-OPN-3	N/A	ACETYLENE DISCONNECT	N/A	NO CHANGE	NO
46-77-OPN-4	N/A	CONDENSED WATER	N/A	NOI	NO
46-77-OPN-5	N/A	FIRE LINE DRAIN	N/A	NOI	NO
46-77-OPN-6 DAYLIGHT	1WF1	METAL FAB. SHOP	N/A	ELIMINATE	YES
46-77-OPN-7 DAYLIGHT	1SD1	METAL FAB. SHOP	N/A	ELIMINATE	YES
46-77-OPN-8	N/A	CONDENSED WATER	N/A	NOI	NO
46-77-OPN-9	N/A	FIRE LINE DRAIN	N/A	NOI	NO
46-77-OPN-10	N/A	FIRE LINE DRAIN	N/A	NOI	NO
46-77-OPN-11	N/A	ABANDONED PIPE	N/A	ELIMINATE	NO
46-77-OPN-12	N/A	WATER BFP DRAIN	N/A	NOI	NO

TABLE 7: TA 46-86 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-86-OPN-1 STORM	1ED1	ABAND. COOLING TOWER	N/A	ELIMINATE	NO

TABLE 8: TA 46-87 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-87-OPN-1	N/A	ABANDONED PIPE	N/A	ELIMINATE	NO
46-87-OPN-2	RD1	ROOF	N/A	NO CHANGE	NO
STORM	RD2	ROOF	N/A	NO CHANGE	
46-87-OPN-3	N/A	ABAND. PIT DISCHARGE	N/A	PLUG/ELIMIN.	NO
46-87-OPN-4	N/A	ABAND. WATER PIT	N/A	NO CHANGE	NO
46-87-OPN-5	1BFP1	STORAGE	N/A	NOI	NO
	1EW1	STORAGE	N/A	NOI	
46-87-OPN-6	N/A	FIRE LINE DRAIN	N/A	NOI	NO

TABLE 9: TA 46-191 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-191-OPN-1	1WH1	WATER HEATER DRAIN	101	NOI	NO
46-191-OPN-2 SANITARY	1LV1	BATHROOM	101	NO CHANGE	NO
	1TL1	BATHROOM	101	NO CHANGE	
46-191-OPN-3	N/A	EVAP. COOLER DRAIN	N/A	NOI	NO

TABLE 10: NON-DRAIN RECOMMENDATIONS

TA #	BLDG. #	ROOM/AREA	RECOMMENDATION
46	ALL	ALL SINK DRAINS	POST "NO CHEM. DN THIS DRAIN" SIGN
46	17	MECH. ROOM	CONTAIN. COMP. AIR FILTER DISCH.
46	58	SEEPAGE PITS(2) BELOW GRADE ON NORTH SIDE OF BLDG.	DECOMMISSION TANKS ACCORDING TO LANL POLICY AND PROVIDE SOIL SAMPLING OF AREA AROUND TANKS
46	86	NORTH SIDE OF CLG TW	VERIFY ORIGIN OF OUTFALL PIPE
46	87	STORAGE ROOM	LABEL & CONTAIN 55-GAL. DRUMS
46	87	EXTERIOR OF THE BLDG. ON THE WEST SIDE	VERIFY CONTENTS OF 55-GAL. DRUMS LABEL DRUMS AND STORE ANY HAZARD. MATERIALS ACCORDING TO LANL POLICY
46	87	SEWAGE PIT IN FLOOR	PLUG INLET AND DECOMMISSION
46	105	ELECT. TRANSFORMER	PROVIDE WITH A ROOFED SHELTER

TABLE 11
SUMMARY OF ABBREVIATIONS

ABBREVIATION	MEANING
"B"	Basement
BFP	Backflow Preventer
CD	Cup Drain
E/C	Evaporative Cooler
ED	Equipment Drain
ESH	Emergency Shower
EW	Emergency Eye Wash
FD	Floor Drain
FS	Floor Sink
LV	Lavatory
MH	Manhole
RD	Roof Drain
--- SD ---	Storm Drain Pipe
SD	Sink
SH	Shower
--- SS ---	Sanitary Sewer Pipe
TL	Toilet
UR	Urinal
WF	Water Fountain
WH	Water Heater

REPORT # 65

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
46	16	46-16-OPN-01	DAYLIGHT	1CD2	3	LABORATORY			NO FLOW	No	NONE
46	16	46-16-OPN-01	DAYLIGHT	1FD1	2	LABORATORY			NO FLOW	No	NONE (PLUGGED)
46	16	46-16-OPN-01	DAYLIGHT	1FD2	4	LABORATORY			5 DAYS PER WEEK	No	FLR WASHING/DEIONIZED WTR
46	16	46-16-OPN-01	DAYLIGHT	1FD3	6	LABORATORY			FLOW IS NIL	No	DEIONIZED WATER/FLOOR WASHINGS
46	16	46-16-OPN-01	DAYLIGHT	1FD4	7	LABORATORY			FLOW IS NIL	No	WATER BFP DRAIN/FLOOR WASHINGS
46	16	46-16-OPN-01	DAYLIGHT	1FD5	8	LABORATORY			FLOW IS NIL	No	FLOOR WASHING
46	16	46-16-OPN-01	DAYLIGHT	1FD6	8	LABORATORY	5	GPD	5 DAYS PER WEEK	No	HAND & FLR. WASH/WTR. HTR. DRAIN
46	16	46-16-OPN-01	DAYLIGHT	1SD1	3	LABORATORY			5 DAYS PER WEEK	No	HAND WASHING
46	16	46-16-OPN-01	DAYLIGHT	1SD2	2	LABORATORY			5 DAYS PER WEEK	No	HAND WASHING
46	16	46-16-OPN-01	DAYLIGHT	1SD3	8	LABORATORY			5 DAYS PER WEEK	No	HAND WASHING
46	16	46-16-OPN-01	DAYLIGHT	BFD1	N/A	BASEMENT			FLOW IS NIL	No	FLOOR WASHINGS
46	16	46-16-OPN-01	DAYLIGHT	BFD2	N/A	BASEMENT			FLOW IS NIL	No	FLOOR WASHINGS
46	16	46-16-OPN-01	DAYLIGHT	BFD3	N/A	BASEMENT			FLOW IS NIL	No	FLOOR WASHINGS/SINK DRAIN
46	16	46-16-OPN-01	DAYLIGHT	BFD4	N/A	BASEMENT			FLOW IS NIL	No	FLOOR WASHINGS
46	16	46-16-OPN-01	DAYLIGHT	BFD5	N/A	BASEMENT			FLOW IS NIL	No	FLOOR WASHINGS
46	16	46-16-OPN-01	DAYLIGHT	BFD6	N/A	BASEMENT			FLOW IS NIL	No	FLOOR WASHINGS
46	16	46-16-OPN-01	DAYLIGHT	BFD7	N/A	BASEMENT			FLOW IS NIL	No	GENERATOR PIT DRAIN
46	16	46-16-OPN-01	DAYLIGHT	BFD8	N/A	BASEMENT			FLOW IS NIL	No	GENERATOR PIT DRAIN
46	16	46-16-OPN-01	DAYLIGHT	BSD1	N/A	BASEMENT			5 DAYS PER WEEK	No	HAND WASHING
46	16	46-16-OPN-02	ATMOSPH.	N/A	2	LABORATORY			NO FLOW	No	TEST CELL AIR EXHAUST VENT
46	16	46-16-OPN-03	DAYLIGHT	1ESH2	N/A	EXTERIOR			NO FLOW	No	EMERGENCY SHOWER
46	16	46-16-OPN-04	ATMOSPH.	N/A	9	DC GENERATOR ROOM			NO FLOW	No	AIR PRESSURE RELIEF VALVE DRAIN
46	16	46-16-OPN-05	DAYLIGHT	N/A	N/A	ROOF			MOSTLY IN SUMMER	Yes	STORM WATER
46	16	46-16-OPN-06	DAYLIGHT	N/A	N/A	ROOF			MOSTLY IN SUMMER	Yes	STORM WATER
46	16	46-16-OPN-07	DAYLIGHT	N/A	N/A	ROOF			MOSTLY IN SUMMER	Yes	STORM WATER
46	16	46-16-OPN-08	DAYLIGHT	N/A	N/A	ROOF			MOSTLY IN SUMMER	Yes	STORM WATER
46	16	46-16-OPN-09	NONE	N/A	8	LABORATORY			NO FLOW	No	NONE (ABANDONED)
46	16	46-16-OPN-10	NONE	N/A	8	LABORATORY			NO FLOW	No	NONE (ABANDONED)
46	16	46-16-OPN-11	DAYLIGHT	N/A	N/A	EXTERIOR			FLOW IS NIL	No	COMPRESSED AIR TANK BLOW DOWN
46	16	46-16-OPN-12	DAYLIGHT	1ESH3	N/A	EXTERIOR			NO FLOW	No	EMERGENCY SHOWER DRAIN
46	16	46-16-OPN-13	ATMOSPH.	N/A	6	LABORATORY			NO FLOW	No	TEST CELL AIR EXHAUST
46	16	46-16-OPN-14	ATMOSPH.	N/A	6	LABORATORY			NO FLOW	No	AIR EXHAUST VENT
46	16	46-16-OPN-15	DAYLIGHT	N/A	5A	LABORATORY			FLOW IS NIL	No	WATER BFP DRAIN

REPORT # 65

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
46	16	46-16-OPN-16	DAYLIGHT	N/A	N/A	LABORATORY			6 MONTHS PER YEAR	Yes	CONDENSED WATER
46	16	46-16-OPN-17	DAYLIGHT	1ESH1	N/A	EXTERIOR			FLOW IS NIL	No	EMERGENCY SHOWER DRAIN
46	16	46-16-OPN-18	DAYLIGHT	1CD1	3	LABORATORY			FLOW IS NIL	No	WATER BFP DRAIN
46	17	46-17-OPN-1	DAYLIGHT	1WH1	N/A	MECHANICAL ROOM			FLOW IS NIL	No	WTR. HTR. PRESS. RELIEF VALVE
46	17	46-17-OPN-2	ATMOSPH.	N/A	N/A	MECHANICAL ROOM			NO FLOW	No	AIR COMPRESSOR EXHAUST
46	17	46-17-OPN-3	DAYLIGHT	N/A	N/A	MECHANICAL ROOM			FLOW IS NIL	No	WATER BFP DRAIN
46	17	46-17-OPN-4	13S/SWSC	1ED1	N/A	MECHANICAL ROOM			FLOW IS NIL	No	AIR COMPRESSOR BLOW-OFF
46	17	46-17-OPN-4	13S/SWSC	1ED1	N/A	MECHANICAL ROOM			FLOW IS NIL	No	FLOOR WASHINGS
46	17	46-17-OPN-4	13S/SWSC	1LV1	N/A	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
46	17	46-17-OPN-4	13S/SWSC	1SD1	N/A	MECHANICAL ROOM			5 DAYS PER WEEK	No	HAND & FLOOR WASHINGS
46	17	46-17-OPN-4	13S/SWSC	1TL1	N/A	RESTROOM			5 DAYS PER WEEK	No	TOILET
46	17	46-17-OPN-4	13S/SWSC	1UR1	N/A	RESTROOM			5 DAYS PER WEEK	No	URINAL
46	20	TA-46-20	ND	N/A	N/A	HOSE HOUSE			NO FLOW	No	NONE (SALVAGED)
46	25	46-25-OPN-01	DAYLIGHT	N/A	EXTER.	OFFICE			6 MONTHS PER YEAR	Yes	CONDENSED WATER
46	25	46-25-OPN-02	13S/SWSC	1CD2	100	LABORATORY			NO FLOW	No	NONE (PLUGGED)
46	25	46-25-OPN-02	13S/SWSC	1CD3	100	LABORATORY			NO FLOW	No	NONE (PLUGGED)
46	25	46-25-OPN-02	13S/SWSC	1CD4	100	LABORATORY			NO FLOW	No	NONE (PLUGGED)
46	25	46-25-OPN-02	13S/SWSC	1CD5	100	LABORATORY			NO FLOW	No	NONE (PLUGGED)
46	25	46-25-OPN-02	13S/SWSC	1CD6	100	LABORATORY			NO FLOW	No	NONE (PLUGGED)
46	25	46-25-OPN-02	13S/SWSC	1CD7	100	LABORATORY			FLOW IS NIL	No	NON-POTABLE WATER
46	25	46-25-OPN-02	13S/SWSC	1CD8	100	LABORATORY			NO FLOW	No	NONE (PLUGGED)
46	25	46-25-OPN-02	13S/SWSC	1CD9	100	LABORATORY			NO FLOW	No	NONE
46	25	46-25-OPN-02	13S/SWSC	1SD1	104	METAL FABRICATION SHOP			5 DAYS PER WEEK	No	HAND WASHING
46	25	46-25-OPN-02	13S/SWSC	1SD2	100	LABORATORY			5 DAYS PER WEEK	No	HAND WASHING
46	25	46-25-OPN-02	13S/SWSC	1WF1	100	LABORATORY			5 DAYS PER WEEK	No	WATER FOUNTAIN
46	25	46-25-OPN-03	NONE	N/A	100	LABORATORY			NO FLOW	No	COMPRESSED AIR DISCONNECT
46	25	46-25-OPN-04	ATMOSPH.	N/A	100	LABORATORY			NO FLOW	No	SANITARY SEWER VENT
46	25	46-25-OPN-05	ATMOSPH.	N/A	100	LABORATORY			NO FLOW	No	NITROGEN GAS VENT
46	25	46-25-OPN-06	ATMOSPH.	N/A	100	LABORATORY			NO FLOW	No	NITROGEN GAS VENT
46	25	46-25-OPN-07	ATMOSPH.	N/A	100	LABORATORY			NO FLOW	No	SANITARY SEWER VENT
46	25	46-25-OPN-08	DAYLIGHT	RD1	N/A	ROOF			MOSTLY IN SUMMER	Yes	STORM WATER
46	25	46-25-OPN-08	DAYLIGHT	RD2	N/A	ROOF			MOSTLY IN SUMMER	Yes	STORM WATER
46	25	46-25-OPN-09	NONE	N/A	100	LABORATORY			NO FLOW	No	COMPRESSED AIR DISCONNECT

REPORT # 65

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
46	25	46-25-OPN-10	DAYLIGHT	1CD1	100	LABORATORY			FLOW IS NIL	No	WATER BFP DRAIN
46	37	46-37-OPN-1	DAYLIGHT	1FD1	100	MECHANICAL ROOM			FLOW IS NIL	No	BOILER PRESS. RELIEF/WATER BFP
46	37	46-37-OPN-1	DAYLIGHT	1FD1	100	MECHANICAL ROOM			FLOW IS NIL	No	EXPANSION TANK DRAIN
46	37	46-37-OPN-1	DAYLIGHT	1FD1	100	MECHANICAL ROOM			FLOW IS NIL	No	FLOOR WASHINGS
46	37	46-37-OPN-1	DAYLIGHT	1FD2	101	LABORATORY			NO FLOW	No	NONE
46	37	46-37-OPN-2	ATMOSPH.	N/A	101	LABORATORY			NO FLOW	No	AIR VENT
46	37	46-37-OPN-3	ATMOSPH.	N/A	101	LABORATORY			NO FLOW	No	AIR VENT
46	58	46-58-OPN-1	NONE	N/A	106	LABORATORY			NO FLOW	No	NONE (ABANDONED)
46	58	46-58-OPN-2	NONE	N/A	106	LABORATORY			NO FLOW	No	NONE (ABANDONED)
46	58	46-58-OPN-3	SEEP. PIT	1SD1	106	LABORATORY			NO FLOW	No	FUME HOOD SINK
46	58	46-58-OPN-3	SEEP. PIT	1SD2	106	LABORATORY			5 DAYS PER WEEK	No	HAND WASHING
46	58	46-58-OPN-4	13S/SWSC	1CD1	106	LABORATORY			5 DAYS PER WEEK	No	WATER FOUNTAIN DRAIN
46	58	46-58-OPN-4	13S/SWSC	1FD1	103	BATHROOM			FLOW IS NIL	No	FLOOR WASHINGS
46	58	46-58-OPN-4	13S/SWSC	1FS1	100	MECHANICAL ROOM			FLOW IS NIL	No	AIR COMP. & STOR. TANK BLWDWN.
46	58	46-58-OPN-4	13S/SWSC	1FS1	100	MECHANICAL ROOM			FLOW IS NIL	No	DEIONIZED WATER
46	58	46-58-OPN-4	13S/SWSC	1FS1	100	MECHANICAL ROOM			FLOW IS NIL	No	AIR DRYER BLOW-OFF
46	58	46-58-OPN-4	13S/SWSC	1FS1	100	MECHANICAL ROOM			FLOW IS NIL	No	WTR. HTR. PRESS. RELIEF VALVE
46	58	46-58-OPN-4	13S/SWSC	1LV1	103	BATHROOM			5 DAYS PER WEEK	No	LAVATORY
46	58	46-58-OPN-4	13S/SWSC	1SD3	100	MECHANICAL ROOM			5 DAYS PER WEEK	No	FLOOR & HAND WASHING
46	58	46-58-OPN-4	13S/SWSC	1SH1	104	BATHROOM			5 DAYS PER WEEK	No	SHOWER
46	58	46-58-OPN-4	13S/SWSC	1TL1	105	BATHROOM			5 DAYS PER WEEK	No	TOILET
46	58	46-58-OPN-4	13S/SWSC	1UR1	103	BATHROOM			5 DAYS PER WEEK	No	URINAL
46	58	46-58-OPN-4	13S/SWSC	1WF1	106	LABORATORY			5 DAYS PER WEEK	No	WATER FOUNTAIN
46	77	46-77-OPN-01	ATMOSPH.	N/A	N/A	METAL FABRICATION SHOP			NO FLOW	No	AIR COMP. PRESS. RELIEF VALVE
46	77	46-77-OPN-02	NONE	N/A	N/A	METAL FABRICATION SHOP			NO FLOW	No	OXYGEN DISCONNECT
46	77	46-77-OPN-03	NONE	N/A	N/A	METAL FABRICATION SHOP			NO FLOW	No	ACETYLENE DISCONNECT
46	77	46-77-OPN-04	DAYLIGHT	N/A	N/A	METAL FABRICATION SHOP			6 MONTHS PER YEAR	Yes	CONDENSED WATER
46	77	46-77-OPN-05	DAYLIGHT	N/A	N/A	METAL FABRICATION SHOP			ONCE ANNUALLY	No	FIRE LINE DRAIN
46	77	46-77-OPN-06	DAYLIGHT	1WF1	N/A	METAL FABRICATION SHOP			5 DAYS PER WEEK	No	WATER FOUNTAIN
46	77	46-77-OPN-07	DAYLIGHT	1SD1	N/A	METAL FABRICATION SHOP			5 DAYS PER WEEK	No	HAND WASHING
46	77	46-77-OPN-08	DAYLIGHT	N/A	N/A	METAL FABRICATION SHOP			6 MONTHS PER YEAR	Yes	CONDENSED WATER
46	77	46-77-OPN-09	DAYLIGHT	N/A	N/A	FIRE SERVICE ROOM			ONCE ANNUALLY	No	FIRE LINE DRAIN
46	77	46-77-OPN-10	DAYLIGHT	N/A	N/A	FIRE SERVICE ROOM			ONCE ANNUALLY	No	FIRE LINE DRAIN

REPORT # 65

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
46	77	46-77-OPN-11	NONE	N/A	N/A	FIRE SERVICE ROOM			NO FLOW	No	NONE (ABANDONED)
46	77	46-77-OPN-12	DAYLIGHT	N/A	N/A	METAL FABRICATION SHOP			FLOW IS NIL	No	WATER BFP DRAIN
46	86	46-86-OPN-1	DAYLIGHT	1ED1	N/A	ABAND. COOLING TOWER			MOSTLY IN SUMMER	Yes	STORM WATER
46	87	46-87-OPN-1	NONE	N/A	N/A	STORAGE ROOM			NO FLOW	No	NONE (ABANDONED)
46	87	46-87-OPN-2	DAYLIGHT	RD1	N/A	ROOF			MOSTLY IN SUMMER	Yes	STORM WATER
46	87	46-87-OPN-2	DAYLIGHT	RD2	N/A	ROOF			MOSTLY IN SUMMER	Yes	STORM WATER
46	87	46-87-OPN-3	NONE	N/A	N/A	SEWAGE HOLDING PIT			NO FLOW	No	NONE (PLUGGED)
46	87	46-87-OPN-4	DAYLIGHT	N/A	N/A	ABAND CLG WTR SUMP PIT			MOSTLY IN SUMMER	Yes	STORM WATER
46	87	46-87-OPN-5	DAYLIGHT	1BFP1	N/A	STORAGE ROOM			FLOW IS NIL	No	WATER BFP DRAIN
46	87	46-87-OPN-5	DAYLIGHT	1EW1	N/A	STORAGE ROOM			FLOW IS NIL	No	EMERGENCY EYE WASH
46	87	46-87-OPN-6	DAYLIGHT	N/A	N/A	STORAGE ROOM			ONCE ANNUALLY	No	FIRE LINE DRAIN
46	105	TA-46-105	ND	N/A	N/A	ELECTRICAL TRANSFORMER			NO FLOW	No	NONE
46	191	46-191-OPN-1	DAYLIGHT	1WH1	101	RESTROOM			FLOW IS NIL	No	WATER HTR PRESS. RELIEF VALVE
46	191	46-191-OPN-2	13S/SWSC	1LV1	101	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
46	191	46-191-OPN-2	13S/SWSC	1TL1	101	RESTROOM			5 DAYS PER WEEK	No	TOILET
46	191	46-191-OPN-3	DAYLIGHT	N/A	EXTER.	ROOF			6 MONTHS PER YEAR	Yes	EVAPORATIVE COOLER WATER DRAIN
46	254	TA-46-254	ND	N/A	N/A	OFFICE BUILDING			NO FLOW	No	NONE
46	264	TA-46-264	ND	N/A	N/A	SOLAR TEST CELL			NO FLOW	No	NONE (SALVAGED)
46	265	TA-46-265	ND	N/A	N/A	SOLAR TEST CELL			NO FLOW	No	NONE (SALVAGED)
46	266	TA-46-266	ND	N/A	N/A	SOLAR TEST CELL			NO FLOW	No	NONE (SALVAGED)
46	267	TA-46-267	ND	N/A	N/A	SOLAR TEST CELL			NO FLOW	No	NONE (SALVAGED)
46	268	TA-46-268	ND	N/A	N/A	SOLAR TEST CELL			NO FLOW	No	NONE (SALVAGED)
46	269	TA-46-269	ND	N/A	N/A	SOLAR TEST CELL			NO FLOW	No	NONE
46	270	TA-46-270	ND	N/A	N/A	SOLAR TEST CELL			NO FLOW	No	NONE (SALVAGED)
46	296	TA-46-296	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE
46	320	TA-46-320	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE
46	400	TA-46-400	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE

Please type or print in the unshaded areas only

EPA ID Number *(copy from Item 1 of Form 1)* NM0890010515

Form Approved OMB No. 2040-0086 Approval expires 7-31-88

Form 2D NPDES

EPA New Sources and New Dischargers Application for Permit to Discharge Process Wastewater

Outfall Location

For each outfall, list the latitude and longitude, and the name of the receiving water.

Outfall Number *(list)*	Latitude			Longitude			Receiving Water *(name)*
	Deg	Min	Sec	Deg	Min	Sec	
46-16-OPN-1	35	51	16	106	16	50	Tributary to Canada Del Buey, an ephemeral tributary
							to the Rio Grande

II. Discharge Date *(When do you expect to begin discharging?)*

Active discharge noted during waste stream characterization.

III. Flows, Sources of Pollution, and Treatment Technologies

A. For each outfall, provide a description of (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

Outfall Number	1. Operations Contributing Flow *(list)*	2. Average Flow *(include units)*	3. Treatment *(Description or List Codes from Table 2D-1)*
46-16-OPN-1	Sinks (4)	120 GPD	None
	Floor drains (13)	Flow is nil	None
	Cup drain (1)	No flow	None
	Water heater	Flow is nil	None
	Total	120 GPD	

B. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item III-A. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

C. Except for storm runoff, leaks, or spills, will any of the discharges described in item III-A be intermittent or seasonal?

☒ Yes *(complete the following table)* ☐ No *(go to item IV)*

Outfall Number	1. Frequency		2. Flow		
	a. Days Per Week *(specify average)*	b. Months Per Year *(specify average)*	a. Maximum Daily Flow Rate *(in mgd)*	b. Maximum Total Volume *(specify with units)*	c. Duration *(in days)*
46-16-OPN-1	5	12	.00012	120 GPD	260

IV. Production

If there is an applicable production-based effluent guideline or NSPS, for each outfall list the estimated level of production (projection of actual production level, not design), expressed in the terms and units used in the applicable effluent guideline or NSPS, for each of the first 3 years of operation. If production is likely to vary, you may also submit alternative estimates (attach a separate sheet).

Year	a. Quantity Per Day	b. Units of Measure	c. Operation, Product, Material, etc *(specify)*
			N/A

 CONTINUE ON NEXT PAGE

CONTINUED FROM THE FRONT	EPA ID Number *(copy from Item 1 of Form 1)* NM0890010515	Outfall Number 46-16-OPN-1

V. Effluent Characteristics

A, and B: These items require you to report estimated amounts *(both concentration and mass)* of the pollutants to be discharged from each of your outfalls. Each part of this item addresses a different set of pollutants and should be completed in accordance with the specific instructions for that part. Data for each outfall should be on a separate page. Attach additional sheets of paper if necessary.

General Instructions *(See table 2D-2 for Pollutants)*

Each part of this item requests you to provide an estimated daily maximum and average for certain pollutants and the source of information. Data for all pollutants in Group A, for all outfalls, must be submitted unless waived by the permitting authority. For all outfalls, data for pollutants in Group B should be reported only for pollutants which you believe will be present or are limited directly by an effluent limitations guideline or NSPS or indirectly through limitations on an indicator pollutant.

1. Pollutant	2. Maximum Daily Value *(include units)*	3. Average Daily Value *(include units)*	4. Source *(see instructions)*
See attached 04A datasheets			Data from similar plants
Discharge is consistent with potable			
water			

CONTINUED FROM THE FRONT	EPA ID Number *(copy from Item 1 of Form 1)* NM0890010515	

C. Use the space below to list any of the pollutants listed in Table 2D-3 of the instructions which you know or have reason to believe will be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it will be present.

1. Pollutant	2. Reason for Discharge
None	

VI. Engineering Report on Wastewater Treatment

A. If there is any technical evaluation concerning your wastewater treatment, including engineering reports or pilot plant studies, check the appropriate box below.

☒ Report Available ☐ No Report Waste Stream Characterization Report #65

B. Provide the name and location of any existing plant(s) which, to the best of your knowledge, resembles this production facility with respect to production processes, wastewater constituents, or wastewater treatments.

Name	Location
N/A	

EPA ID Number *(copy from item one of Form 1)*
NM0890010515

VII. Other Information *(Optional)*

Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the proposed facility. Attach additional sheets if necessary.

See attached 04A datasheets and flow diagram. Discharge is consistent with potable water and hand washing activities.

VIII. Certification

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 violations.

A. Name and Official Title *(type or print)*	B. Phone No.
JERRY L. BELLOWS, AREA MANAGER, DOE ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	505-667-5105 505-667-9390
C. Signature	D. Date Signed

★U.S. Government Printing Office : 1986 -491-181/52940

Data worst case composite.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item I of Form 1)*: NM0890010515

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

OUTFALL NO. 04A

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	< 2.0	< 0.9						mg/l	g/d			
b. Chemical Oxygen Demand *(COD)*	< 10.0	< 4.5						mg/l	g/d			
c. Total Organic Carbon *(TOC)*	0.6	0.3						mg/l	g/d			
d. Total Suspended Solids *(TSS)*	18.0	8.2						mg/l	g/d			
e. Ammonia *(as N)*	< 0.1	< 45.420						mg/l	g/d			
f. Flow	VALUE 120		VALUE		VALUE			gal/day		VALUE		
g. Temperature *(winter)*	VALUE 13.9		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE N/A		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 8.45	MAXIMUM 8.80	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X	< 0.5	< 0.2						mg/l	g/d			
b. Chlorine, Total Residual	X		0.05	0.0						mg/l	mg/d			
c. Color	X		7.0							units				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		0.21	95.4						mg/l	g/d			
f. Nitrate-Nitrite *(as N)*	X		0.304	0.1						mg/l	g/d			

CONTINUE ON REVERSE

1. POLLUTANT AND CAS NO. (If available)	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. TAKE [redacted]nal) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X	< 0.5	< 0.2						mg/l	g/d			
h. Oil and Grease		X	< 1.05	< 0.5						mg/l	g/d			
i. Phosphorus (as P), Total (7723-14-0)	X		0.05	22.7						mg/l	mg/d			
j. Radioactivity														
(1) Alpha, Total	X		0.1	45.4						pCi/l	pCi/d			
(2) Beta, Total	X		6.6	3.0						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		0.06	27.3						pCi/l	pCi/d			
k. Sulfate (as SO_4) (14808-79-8)	X		3.16	1.4						mg/l	g/d			
l. Sulfide (as S)		X		0.0						mg/l	mg/d			
m. Sulfite (as SO_3) (14265-45-3)		X	< 0.05	< 22.7						mg/l	mg/d			
n. Surfactants		X	< 0.1	< 45.4						mg/l	mg/d			
o. Aluminum, Total (7429-90-5)		X	< 0.04	< 18.2						mg/l	mg/d			
p. Barium, Total (7440-39-3)	X		0.03	13.6						mg/l	mg/d			
q. Boron, Total (7440-42-8)	X		0.02	9.1						mg/l	mg/d			
r. Cobalt, Total (7440-48-4)		X	< 0.1	< 45.4						mg/l	mg/d			
s. Iron, Total (7439-89-6)	X		0.41	0.2						mg/l	g/d			
t. Magnesium, Total (7439-95-4)	X		2.5	1.1						mg/l	g/d			
u. Molybdenum, Total (7439-98-7)		X	< 0.02	< 9.1						mg/l	mg/d			
v. Manganese, Total (7439-96-5)	X		0.01	4.5						mg/l	mg/d			
w. Tin, Total (7440-31-5)		X	< 0.050	< 22.7						mg/l	mg/d			
x. Titanium, Total (7440-32-6)		X	< 0.004	< 1.8						mg/l	mg/d			

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (copy from Item 1 of 1)	OUTFALL NUMBER
NM0890010515	04A

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X	< 0.050	< 22.7						mg/l	mg/d			
2M. Arsenic, Total (7440-38-2)		X		0.002	0.9						mg/l	mg/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.001	< 0.5						mg/l	mg/d			
4M. Cadmium, Total (7440-43-9)			X	< 0.010	< 4.5						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		0.040	18.2						mg/l	mg/d			
6M. Copper, Total (7440-50-8)		X		0.031	14.1						mg/l	mg/d			
7M. Lead, Total (7439-92-1)			X	< 0.050	< 22.7						mg/l	mg/d			
8M. Mercury, Total (7439-97-6)			X	< 0.0002	< 0.1						mg/l	mg/d			
9M. Nickel, Total (7440-02-0)		X		0.06	27.3						mg/l	mg/d			
10M. Selenium, Total (7782-49-2)			X	< 0.001	< 0.5						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< 0.010	< 4.5						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)			X	< 0.4	< 0.2						mg/l	g/d			
13M. Zinc, Total (7440-66-6)		X		0.043	19.5						mg/l	mg/d			
14M. Cyanide, Total (57-12-5)			X	0.01	4.5						mg/l	mg/d			
15M. Phenols, Total			X	< 0.01	< 4.5						mg/l	mg/d			
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X	< 0.005	< 2.3						mg/l	mg/d			
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< 0.005	< 2.3						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 2.3						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 2.3						mg/l	mg/d			
8V. Chlorodibromomethane (124-48-1)			X	< 0.005	< 2.3						mg/l	mg/d			
9V. Chloroethane (75-00-3)			X	< 0.010	< 0.00						mg/l	mg/d			
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< 0.005	< 2.3						mg/l	mg/d			
12V. Dichlorobromomethane (75-27-4)			X	< 0.005	< 2.3						mg/l	mg/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X	< 0.005	< 2.3						mg/l	mg/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< 0.005	< 2.3						mg/l	mg/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< 0.005	< 2.3						mg/l	mg/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< 0.005	< 2.3						mg/l	kg/d			
18V. 1,3-Dichloropropylene (542-75-6)			X	<	< 0.0						mg/l	mg/d			
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 2.3						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 4.5						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 4.5						mg/l	mg/d			

CONTINUE ON PAGE V-5

EPA NUMBER (Copy from Item 1 of Form 1) NM0890010515 OUTFALL NUMBER 04A

Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 2.3						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< 0.005	< 2.3						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< 0.005	< 2.3						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< 0.005	< 2.3						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< 0.005	< 2.3						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< 0.005	< 2.3						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< 0.005	< 2.3						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< 0.005	< 2.3						mg/l	mg/d			
30V. Trichlorofluoromethane (75-69-4)			X	< 0.005	< 2.3						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 4.5						mg/l	mg/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	< 0.010	< 4.5						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< 0.010	< 4.5						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< 0.010	< 4.5						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	< 0.010	< 4.5						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< 0.010	< 4.5						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< 0.010	< 4.5						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 4.5						mg/l	mg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< 0.010	< 4.5						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< 0.010	< 4.5						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< 0.010	< 4.5						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< 0.010	< 4.5						mg/l	mg/d			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANTS AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	< 0.010	< 4.5						mg/l	mg/d			
2B. Acenaphtylene (208-96-8)			X	< 0.010	< 4.5						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< 0.010	< 4.5						mg/l	mg/d			
4B. Benzidine (92-87-5)			X	< 0.010	< 4.5						mg/l	mg/d			
5B. Benzo (a) Anthracene (56-55-3)			X	< 0.010	< 4.5						mg/l	mg/d			
6B. Benzo (a) Pyrene (50-32-8)			X	< 0.010	< 4.5						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	< 0.010	< 4.5						mg/l	mg/d			
8B. Benzo (ghi) Perylene (191-24-2)			X	< 0.010	< 4.5						mg/l	mg/d			
9B. Benzo (k) Fluoranthene (207-08-9)			X	< 0.010	< 4.5						mg/l	mg/d			
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X	< 0.010	< 4.5						mg/l	mg/d			
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X	< 0.010	< 4.5						mg/l	mg/d			
12B. Bis (2-Chloroisa-propyl) Ether (102-60-1)			X	< 0.010	< 4.5						mg/l	mg/d			
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)			X	< 0.010	< 4.5						mg/l	mg/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	< 0.010	< 4.5						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< 0.010	< 4.5						mg/l	mg/d			
16B. 2-Chloro-naphthalene (91-58-7)			X	< 0.010	< 4.5						mg/l	mg/d			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	< 0.010	< 4.5						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< 0.010	< 4.5						mg/l	mg/d			
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	< 0.010	< 4.5						mg/l	mg/d			
20B. 1,2-Dichloro-benzene (95-50-1)			X	< 0.010	< 4.5						mg/l	mg/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< 0.010	< 4.5						mg/l	mg/d			

CONTINUE ON PAGE V-7

EPA I.D. NUMBER (Copy from Item 1 of Form 1) NM0890010515 | OUTFALL NUMBER 04A

Form Approved. OM[redacted]040-0[redacted] Approval expires 7-31-88

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< 0.010	< 4.5						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 4.5						mg/l	mg/d			
24B. Diethyl Phthalate (84-66-2)			X	< 0.010	< 4.5						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 4.5						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 4.5						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 4.5						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (606-20-2)			X	< 0.010	< 4.5						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 4.5						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X	< 0.010	< 4.5						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< 0.010	< 4.5						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 4.5						mg/l	mg/d			
33B. Hexachlorobenzene (118-74-1)			X	< 0.010	< 4.5						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 4.5						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 4.5						mg/l	mg/d			
36B. Hexachloroethane (67-72-1)			X	< 0.010	< 4.5						mg/l	mg/d			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	< 0.010	< 4.5						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 4.5						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 4.5						mg/l	mg/d			
40B. Nitrobenzene (98-95-3)			X	< 0.010	< 4.5						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< 0.010	< 4.5						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< 0.010	< 4.5						mg/l	mg/d			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< 0.010	< 4.5						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 4.5						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 4.5						mg/l	mg/d			
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	< 0.010	< 4.5						mg/l	mg/d			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	< 0.06	< 27.3						ug/l	ug/d			
2P. α-BHC (319-84-6)			X	< 0.02	< 9.1						ug/l	ug/d			
3P. β-BHC (319-85-7)			X	< 0.1	< 45.4						ug/l	ug/d			
4P. γ-BHC (58-89-9)			X	< 0.03	< 13.6						ug/l	ug/d			
5P. δ-BHC (319-86-8)			X	< 0.12	< 54.5						ug/l	ug/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 0.1						ug/l	ug/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 27.3						ug/l	ug/d			
8P. 4,4'-DDE (72-55-9)			X	< 0.08	< 36.3						ug/l	ug/d			
9P. 4,4'-DDD (72-54-8)			X	< 0.08	< 36.3						ug/l	ug/d			
10P. Dieldrin (60-57-1)			X	< 0.08	< 36.3						ug/l	ug/d			
11P. α-Endosulfan (115-29-7)			X	< 0.05	< 22.7						ug/l	ug/d			
12P. β-Endosulfan (115-29-7)			X	< 0.08	< 36.3						ug/l	ug/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< 0.09	< 40.9						ug/l	ug/d			
14P. Endrin (72-20-8)			X	< 0.06	< 27.3						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.62	< 0.3						ug/l	ug/d			
16P. Heptachlor (76-44-8)			X	< 0.3	< 0.1						ug/l	mg/d			

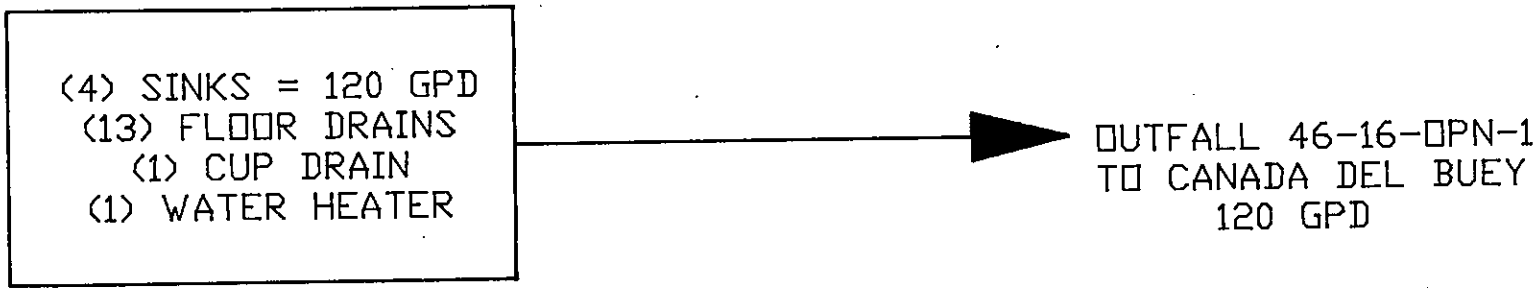
CONTINUE ON PAGE V-9

EPA Form 3510-2C (Rev. 2-85)

EPA [redacted] UMB[redacted]py fr[redacted]m I o[redacted] 1) C[redacted]LL N[redacted]R [redacted] [redacted] [redacted]orm [redacted]a. [redacted] OMB No. [redacted]0-008[redacted] Approval expires 7-31-88

NM0890010515 | 04A

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X	< 0.04	< 18.2						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< 0.68	< 0.3						ug/l	ug/d			
19P. PCB-1254 (11097-69-1)			X	< 0.68	< 0.3						ug/l	ug/d			
20P. PCB-1221 (11104-28-2)			X	N.D.											
21P. PCB-1232 (11141-16-5)			X	N.D.											
22P. PCB-1248 (12672-29-6)			X	N.D.											
23P. PCB-1260 (11096-82-5)			X	< 0.68	< 0.3						ug/l	ug/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 1.1						ug/l	mg/d			



OUTFALL 46-16-OPN-1 FLOW DIAGRAM

Please type or print in the unshaded areas only

EPA ID Number *(copy from Item 1 of Form 1)* NM0890010515

Form Approved OMB No. 2040-0086 Approval expires 7-31-88

Form 2D NPDES

EPA New Sources and New Dischargers Application for Permit to Discharge Process Wastewater

Outfall Location

For each outfall, list the latitude and longitude, and the name of the receiving water.

Outfall Number *(list)*	Latitude			Longitude			Receiving Water *(name)*
	Deg	Min	Sec	Deg	Min	Sec	
46-58-OPN-3	35	51	16	106	16	50	Seepage pit in vicinity of Canada Del Buey, an ephemeral tributary
							to the Rio Grande

II. Discharge Date *(When do you expect to begin discharging?)*

Active discharge noted during waste stream characterization.

III. Flows, Sources of Pollution, and Treatment Technologies

A. For each outfall, provide a description of (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

Outfall Number	1. Operations Contributing Flow *(list)*	2. Average Flow *(include units)*	3. Treatment *(Description or List Codes from Table 2D-1)*
46-58-OPN-3	Sink drain	20 GPD	None
	Fume hood sink drain (unused)	0 GPD	None

B. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item III-A. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

C. Except for storm runoff, leaks, or spills, will any of the discharges described in item III-A be intermittent or seasonal?

☒ Yes *(complete the following table)* ☐ No *(go to item IV)*

Outfall Number	1. Frequency		2. Flow		
	a. Days Per Week *(specify average)*	b. Months Per Year *(specify average)*	a. Maximum Daily Flow Rate *(in mgd)*	b. Maximum Total Volume *(specify with units)*	c. Duration *(in days)*
46-58-OPN-3	5	12	.00002	20 GPD	260

IV. Production

If there is an applicable production-based effluent guideline or NSPS, for each outfall list the estimated level of production (projection of actual production level, not design), expressed in the terms and units used in the applicable effluent guideline or NSPS, for each of the first 3 years of operation. If production is likely to vary, you may also submit alternative estimates (attach a separate sheet).

Year	a. Quantity Per Day	b. Units of Measure	c. Operation, Product, Material, etc *(specify)*
			N/A

 CONTINUE ON NEXT PAGE

CONTINUED FROM THE FRONT	EPA ID Number *(copy from Item 1 of Form 1)* NM0890010515	Outfall Number 46-58-OPN-3

V. Effluent Characteristics

A, and B: These items require you to report estimated amounts *(both concentration and mass)* of the pollutants to be discharged from each of your outfalls. Each part of this item addresses a different set of pollutants and should be completed in accordance with the specific instructions for that part. Data for each outfall should be on a separate page. Attach additional sheets of paper if necessary.

General Instructions *(See table 2D-2 for Pollutants)*

Each part of this item requests you to provide an estimated daily maximum and average for certain pollutants and the source of information. Data for all pollutants in Group A, for all outfalls, must be submitted unless waived by the permitting authority. For all outfalls, data for pollutants in Group B should be reported only for pollutants which you believe will be present or are limited directly by an effluent limitations guideline or NSPS or indirectly through limitations on an indicator pollutant.

1. Pollutant	2. Maximum Daily Value *(include units)*	3. Average Daily Value *(include units)*	4. Source *(see instructions)*
See attached 04A datasheets			Data from similar plants
Discharge is consistent with potable			
water.			

CONTINUED FROM THE FRONT	EPA ID Number *(copy from Item 1 of Form 1)* NM0890010515	

C. Use the space below to list any of the pollutants listed in Table 2D-3 of the instructions which you know or have reason to believe will be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it will be present.

1. Pollutant	2. Reason for Discharge
None	

VI. Engineering Report on Wastewater Treatment

A. If there is any technical evaluation concerning your wastewater treatment, including engineering reports or pilot plant studies, check the appropriate box below.

☒ Report Available ☐ No Report Waste Stream Characterization Report #65

B. Provide the name and location of any existing plant(s) which, to the best of your knowledge, resembles this production facility with respect to production processes, wastewater constituents, or wastewater treatments.

Name	Location
N/A	

EPA ID Number *(copy from item one of Form 1)*
NM0890010515

VII. Other Information *(Optional)*

Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the proposed facility. Attach additional sheets if necessary.

See attached 04A datasheets and flow diagram. Discharge is consistent with potable water and hand washing activities.

VIII. Certification

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 violations.

A. Name and Official Title *(type or print)*	B. Phone No.
JERRY L. BELLOWS, AREA MANAGER, DOE ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	505-667-5105 505-667-9390
C. Signature	D. Date Signed

*U.S. Government Printing Office : 1986 -491-191/52940

Data from [redacted] case composite

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: NM0890010515

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

OUTFALL NO. 04A

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	< 2.0	< 0.2						mg/l	g/d			
b. Chemical Oxygen Demand *(COD)*	< 10.0	< 0.8						mg/l	g/d			
c. Total Organic Carbon *(TOC)*	0.6	44.7						mg/l	g/d			
d. Total Suspended Solids *(TSS)*	18.0	1.4						mg/l	g/d			
e. Ammonia *(as N)*	< 0.1	< 7.570						mg/l	g/d			
f. Flow	VALUE 20		VALUE		VALUE			gal/day		VALUE		
g. Temperature *(winter)*	VALUE 13.9		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE N/A		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 8.45	MAXIMUM 8.80	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X	< 0.5	< 37.9						mg/l	g/d			
b. Chlorine, Total Residual	X		0.05	0.0						mg/l	mg/d			
c. Color	X		7.0							units				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		0.21	15.9						mg/l	g/d			
f. Nitrate-Nitrite *(as N)*	X		0.304	23.0						mg/l	g/d			

CONTINUE ON REVERSE

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS e. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X	< 0.5	< 37.9						mg/l	mg/d			
h. Oil and Grease		X	< 1.05	< 79.5						mg/l	mg/d			
i. Phosphorus (as P), Total (7723-14-0)	X		0.05	3.8						mg/l	mg/d			
j. Radioactivity														
(1) Alpha, Total	X		0.1	7.6						pCi/l	pCi/d			
(2) Beta, Total	X		6.6	0.5						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		0.06	4.5						pCi/l	pCi/d			
k. Sulfate (as SO_4) (14808-79-8)	X		3.16	0.2						mg/l	g/d			
l. Sulfide (as S)		X		0.0						mg/l	mg/d			
m. Sulfite (as SO_3) (14265-45-3)		X	< 0.05	< 3.8						mg/l	mg/d			
n. Surfactants		X	< 0.1	< 7.6						mg/l	mg/d			
o. Aluminum, Total (7429-90-5)		X	< 0.04	< 3.0						mg/l	mg/d			
p. Barium, Total (7440-39-3)	X		0.03	2.3						mg/l	mg/d			
q. Boron, Total (7440-42-8)	X		0.02	1.5						mg/l	mg/d			
r. Cobalt, Total (7440-48-4)		X	< 0.1	< 7.6						mg/l	mg/d			
s. Iron, Total (7439-89-6)	X		0.41	31.0						mg/l	mg/d			
t. Magnesium, Total (7439-95-4)	X		2.5	0.2						mg/l	g/d			
u. Molybdenum, Total (7439-98-7)		X	< 0.02	< 1.5						mg/l	mg/d			
v. Manganese, Total (7439-96-5)	X		0.01	0.8						mg/l	mg/d			
w. Tin, Total (7440-31-5)		X	< 0.050	< 3.8						mg/l	mg/d			
x. Titanium, Total (7440-32-6)		X	< 0.004	< 0.3						mg/l	mg/d			

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	04A

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X	< 0.050	< 3.8						mg/l	mg/d			
2M. Arsenic, Total (7440-38-2)		X		0.002	0.2						mg/l	mg/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.001	< 0.1						mg/l	mg/d			
4M. Cadmium, Total (7440-43-9)			X	< 0.010	< 0.8						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		0.040	3.0						mg/l	mg/d			
6M. Copper, Total (7440-50-8)		X		0.031	2.3						mg/l	mg/d			
7M. Lead, Total (7439-92-1)			X	< 0.050	< 3.8						mg/l	mg/d			
8M. Mercury, Total (7439-97-6)			X	< 0.0002	< 0.0						mg/l	mg/d			
9M. Nickel, Total (7440-02-0)		X		0.06	4.5						mg/l	mg/d			
10M. Selenium, Total (7782-49-2)			X	< 0.001	< 0.1						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< 0.010	< 0.8						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)			X	< 0.4	< 30.3						mg/l	mg/d			
13M. Zinc, Total (7440-66-6)		X		0.043	3.3						mg/l	mg/d			
14M. Cyanide, Total (57-12-5)			X	0.01	0.8						mg/l	mg/d			
15M. Phenols, Total			X	< 0.01	< 0.8						mg/l	mg/d			
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X	< 0.005	< 0.4						mg/l	mg/d			
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< 0.005	< 0.4						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 0.4						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 0.4						mg/l	mg/d			
8V. Chlorodibromomethane (124-48-1)			X	< 0.005	< 0.4						mg/l	mg/d			
9V. Chloroethane (75-00-3)			X	< 0.010	< 0.000						mg/l	mg/d			
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< 0.005	< 0.4						mg/l	mg/d			
12V. Dichlorobromomethane (75-27-4)			X	< 0.005	< 0.4						mg/l	mg/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X	< 0.005	< 0.4						mg/l	mg/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< 0.005	< 0.4						mg/l	mg/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< 0.005	< 0.4						mg/l	mg/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< 0.005	< 0.4						mg/l	kg/d			
18V. 1,3-Dichloropropylene (542-75-6)			X	<	< 0.0						mg/l	mg/d			
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 0.4						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 0.8						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 0.8						mg/l	mg/d			

CONTINUE ON PAGE V-5

EP[redacted] NUM[redacted] NM0890010515 [redacted] 04A [redacted] Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 0.4						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< 0.005	< 0.4						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< 0.005	< 0.4						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< 0.005	< 0.4						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< 0.005	< 0.4						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< 0.005	< 0.4						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< 0.005	< 0.4						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< 0.005	< 0.4						mg/l	mg/d			
30V. Trichlorofluoromethane (75-69-4)			X	< 0.005	< 0.4						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 0.8						mg/l	mg/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	< 0.010	< 0.8						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< 0.010	< 0.8						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< 0.010	< 0.8						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	< 0.010	< 0.8						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< 0.010	< 0.8						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< 0.010	< 0.8						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 0.8						mg/l	mg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< 0.010	< 0.8						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< 0.010	< 0.8						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< 0.010	< 0.8						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< 0.010	< 0.8						mg/l	mg/d			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	< 0.010	< 0.8						mg/l	mg/d			
2B. Acenaphtylene (208-96-8)			X	< 0.010	< 0.8						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< 0.010	< 0.8						mg/l	mg/d			
4B. Benzidine (92-87-5)			X	< 0.010	< 0.8						mg/l	mg/d			
5B. Benzo *(a)* Anthracene (56-55-3)			X	< 0.010	< 0.8						mg/l	mg/d			
6B. Benzo *(a)* Pyrene (50-32-8)			X	< 0.010	< 0.8						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	< 0.010	< 0.8						mg/l	mg/d			
8B. Benzo *(ghi)* Perylene (191-24-2)			X	< 0.010	< 0.8						mg/l	mg/d			
9B. Benzo *(k)* Fluoranthene (207-08-9)			X	< 0.010	< 0.8						mg/l	mg/d			
10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1)			X	< 0.010	< 0.8						mg/l	mg/d			
11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4)			X	< 0.010	< 0.8						mg/l	mg/d			
12B. Bis *(2-Chloroiso-propyl)* Ether (102-60-1)			X	< 0.010	< 0.8						mg/l	mg/d			
13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7)			X	< 0.010	< 0.8						mg/l	mg/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	< 0.010	< 0.8						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< 0.010	< 0.8						mg/l	mg/d			
16B. 2-Chloro-naphthalene (91-58-7)			X	< 0.010	< 0.8						mg/l	mg/d			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	< 0.010	< 0.8						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< 0.010	< 0.8						mg/l	mg/d			
19B. Dibenzo *(a,h)* Anthracene (53-70-3)			X	< 0.010	< 0.8						mg/l	mg/d			
20B. 1,2-Dichloro-benzene (95-50-1)			X	< 0.010	< 0.8						mg/l	mg/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< 0.010	< 0.8						mg/l	mg/d			

CONTINUE ON PAGE V-7

[redacted] EPA I.D. [redacted]BER [redacted] from [redacted] of F[redacted] OUT[redacted] NUM[redacted] [redacted] Form Approved. OM[redacted]040-[redacted] Approval expires 7-31-88 [redacted]

NM0890010515 | 04A

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< 0.010	< 0.8						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 0.8						mg/l	mg/d			
24B. Diethyl Phthalate (84-66-2)			X	< 0.010	< 0.8						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 0.8						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 0.8						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 0.8						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (606-20-2)			X	< 0.010	< 0.8						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 0.8						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X	< 0.010	< 0.8						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< 0.010	< 0.8						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 0.8						mg/l	mg/d			
33B. Hexachlorobenzene (118-74-1)			X	< 0.010	< 0.8						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 0.8						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 0.8						mg/l	mg/d			
36B. Hexachloroethane (67-72-1)			X	< 0.010	< 0.8						mg/l	mg/d			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	< 0.010	< 0.8						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 0.8						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 0.8						mg/l	mg/d			
40B. Nitrobenzene (98-95-3)			X	< 0.010	< 0.8						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< 0.010	< 0.8						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< 0.010	< 0.8						mg/l	mg/d			

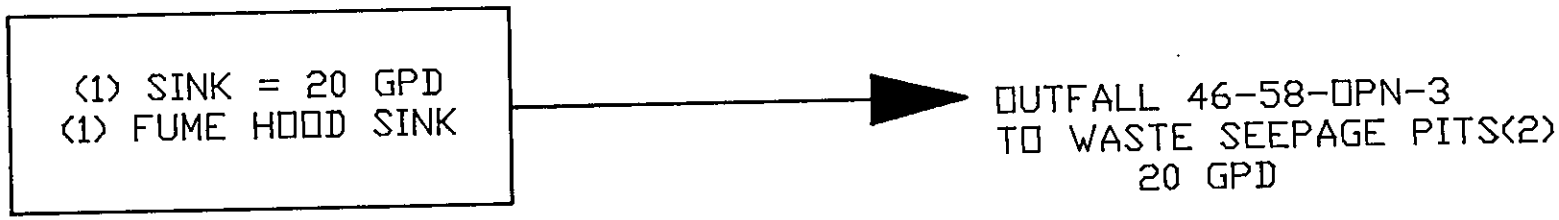
CONTINUED F. THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< 0.010	< 0.8						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 0.8						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 0.8						mg/l	mg/d			
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	< 0.010	< 0.8						mg/l	mg/d			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	< 0.06	< 4.5						ug/l	ug/d			
2P. α-BHC (319-84-6)			X	< 0.02	< 1.5						ug/l	ug/d			
3P. β-BHC (319-85-7)			X	< 0.1	< 7.6						ug/l	ug/d			
4P. γ-BHC (58-89-9)			X	< 0.03	< 2.3						ug/l	ug/d			
5P. δ-BHC (319-86-8)			X	< 0.12	< 9.1						ug/l	ug/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 18.9						ug/l	ug/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 4.5						ug/l	ug/d			
8P. 4,4'-DDE (72-55-9)			X	< 0.08	< 6.1						ug/l	ug/d			
9P. 4,4'-DDD (72-54-8)			X	< 0.08	< 6.1						ug/l	ug/d			
10P. Dieldrin (60-57-1)			X	< 0.08	< 6.1						ug/l	ug/d			
11P. α-Endosulfan (115-29-7)			X	< 0.05	< 3.8						ug/l	ug/d			
12P. β-Endosulfan (115-29-7)			X	< 0.08	< 6.1						ug/l	ug/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< 0.09	< 6.8						ug/l	ug/d			
14P. Endrin (72-20-8)			X	< 0.06	< 4.5						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.62	< 46.9						ug/l	ug/d			
16P. Heptachlor (76-44-8)			X	< 0.3	< 22.7						ug/l	ug/d			

CONTINUE ON PAGE V-9

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X	< 0.04	< 3.0						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< 0.68	< 51.5						ug/l	ug/d			
19P. PCB-1254 (11097-69-1)			X	< 0.68	< 51.5						ug/l	ug/d			
20P. PCB-1221 (11104-28-2)			X	N.D.											
21P. PCB-1232 (11141-16-5)			X	N.D.											
22P. PCB-1248 (12672-29-6)			X	N.D.											
23P. PCB-1260 (11096-82-5)			X	< 0.68	< 51.5						ug/l	ug/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 0.2						ug/l	mg/d			



OUTFALL 46-58-OPN-3 FLOW DIAGRAM

CONTINUED FROM THE FRONT	EPA ID Number *(copy from Item 1 of Form 1)* NM0890010515	Outfall Number 46-77-OPN-6

V. Effluent Characteristics

A, and B: These items require you to report estimated amounts *(both concentration and mass)* of the pollutants to be discharged from each of your outfalls. Each part of this item addresses a different set of pollutants and should be completed in accordance with the specific instructions for that part. Data for each outfall should be on a separate page. Attach additional sheets of paper if necessary.

General Instructions *(See table 2D-2 for Pollutants)*

Each part of this item requests you to provide an estimated daily maximum and average for certain pollutants and the source of information. Data for all pollutants in Group A, for all outfalls, must be submitted unless waived by the permitting authority. For all outfalls, data for pollutants in Group B should be reported only for pollutants which you believe will be present or are limited directly by an effluent limitations guideline or NSPS or indirectly through limitations on an indicator pollutant.

1. Pollutant	2. Maximum Daily Value *(include units)*	3. Average Daily Value *(include units)*	4. Source *(see instructions)*
See attached 04A datasheets			Data from similar plants
Discharge is consistent with potable			
water. The pollutants noted are			
present solely as a result of intake			
water			

CONTINUED FROM THE FRONT	EPA ID Number *(copy from Item 1 of Form 1)* NM0890010515	

C. Use the space below to list any of the pollutants listed in Table 2D-3 of the instructions which you know or have reason to believe will be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it will be present.

1. Pollutant	2. Reason for Discharge
None	

VI. Engineering Report on Wastewater Treatment

A. If there is any technical evaluation concerning your wastewater treatment, including engineering reports or pilot plant studies, check the appropriate box below.

☒ Report Available ☐ No Report Waste Stream Characterization Report #65

B. Provide the name and location of any existing plant(s) which, to the best of your knowledge, resembles this production facility with respect to production processes, wastewater constituents, or wastewater treatments.

Name	Location
N/A	

 CONTINUE ON NEXT PAGE

EPA ID Number *(copy from item one of Form 1)*
NM0890010515

VII. Other Information *(Optional)*

Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the proposed facility. Attach additional sheets if necessary.

See attached 04A datasheets and flow diagram. Discharge is consistent with potable water.

VIII. Certification

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 violations.

A. Name and Official Title *(type or print)*	B. Phone No.
JERRY L. BELLOWS, AREA MANAGER, DOE ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	505-667-5105 505-667-9390
C. Signature	D. Date Signed

*U.S. Government Printing Office : 1986 -491-191/52940

Data, worst case composite.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item I of Form 1)*: NM0890010515

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

OUTFALL NO. 04A

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	< 2.0	< 37.9						mg/l	g/d			
b. Chemical Oxygen Demand *(COD)*	< 10.0	< 0.2						mg/l	g/d			
c. Total Organic Carbon *(TOC)*	0.6	11.2						mg/l	g/d			
d. Total Suspended Solids *(TSS)*	18.0	0.3						mg/l	g/d			
e. Ammonia *(as N)*	< 0.1	< 1.893						mg/l	g/d			
f. Flow	VALUE 5		VALUE		VALUE			gal/day		VALUE		
g. Temperature *(winter)*	VALUE 13.9		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE N/A		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 8.45	MAXIMUM 8.80	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X	< 0.5	< 9.5						mg/l	g/d			
b. Chlorine, Total Residual	X		0.05	0.0						mg/l	mg/d			
c. Color	X		7.0							units				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		0.21	4.0						mg/l	g/d			
f. Nitrate-Nitrite *(as N)*	X		0.304	5.8						mg/l	g/d			

CONTINUE ON REVERSE

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. a. CONCENTRATION	b. MASS	5. a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X	< 0.5	< 9.5						mg/l	mg/d			
h. Oil and Grease		X	< 1.05	< 19.9						mg/l	mg/d			
i. Phosphorus (as P), Total (7723-14-0)	X		0.05	0.9						mg/l	mg/d			
j. Radioactivity														
(1) Alpha, Total	X		0.1	1.9						pCi/l	pCi/d			
(2) Beta, Total	X		6.6	0.1						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		0.06	1.1						pCi/l	pCi/d			
k. Sulfate (as SO_4) (14808-79-8)	X		3.16	59.8						mg/l	mg/d			
l. Sulfide (as S)		X		0.0						mg/l	mg/d			
m. Sulfite (as SO_3) (14265-45-3)		X	< 0.05	< 0.9						mg/l	mg/d			
n. Surfactants		X	< 0.1	< 1.9						mg/l	mg/d			
o. Aluminum, Total (7429-90-5)		X	< 0.04	< 0.8						mg/l	mg/d			
p. Barium, Total (7440-39-3)	X		0.03	0.6						mg/l	mg/d			
q. Boron, Total (7440-42-8)	X		0.02	0.4						mg/l	mg/d			
r. Cobalt, Total (7440-48-4)		X	< 0.1	< 1.9						mg/l	mg/d			
s. Iron, Total (7439-89-6)	X		0.41	7.8						mg/l	mg/d			
t. Magnesium, Total (7439-95-4)	X		2.5	47.3						mg/l	mg/d			
u. Molybdenum, Total (7439-98-7)		X	< 0.02	< 0.4						mg/l	mg/d			
v. Manganese, Total (7439-96-5)	X		0.01	0.2						mg/l	mg/d			
w. Tin, Total (7440-31-5)		X	< 0.050	< 0.9						mg/l	mg/d			
x. Titanium, Total (7440-32-6)		X	< 0.004	< 0.1						mg/l	mg/d			

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (copy from Item 1 of 1)	OUTFALL NUMBER
NM0890010515	04A

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X	< 0.050	< 0.9						mg/l	mg/d			
2M. Arsenic, Total (7440-38-2)		X		0.002	0.0						mg/l	mg/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.001	< 0.0						mg/l	mg/d			
4M. Cadmium, Total (7440-43-9)			X	< 0.010	< 0.2						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		0.040	0.8						mg/l	mg/d			
6M. Copper, Total (7440-50-8)		X		0.031	0.6						mg/l	mg/d			
7M. Lead, Total (7439-92-1)			X	< 0.050	< 0.9						mg/l	mg/d			
8M. Mercury, Total (7439-97-6)			X	< 0.0002	< 0.00						mg/l	mg/d			
9M. Nickel, Total (7440-02-0)		X		0.06	1.1						mg/l	mg/d			
10M. Selenium, Total (7782-49-2)			X	< 0.001	< 0.0						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< 0.010	< 0.2						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)			X	< 0.4	< 7.6						mg/l	mg/d			
13M. Zinc, Total (7440-66-6)		X		0.043	0.8						mg/l	mg/d			
14M. Cyanide, Total (57-12-5)			X	0.01	0.2						mg/l	mg/d			
15M. Phenols, Total			X	< 0.01	< 0.2						mg/l	mg/d			
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (opt) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X	< 0.005	< 0.1						mg/l	mg/d			
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< 0.005	< 0.1						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 0.1						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 0.1						mg/l	mg/d			
8V. Chlorodibromomethane (124-48-1)			X	< 0.005	< 0.1						mg/l	mg/d			
9V. Chloroethane (75-00-3)			X	< 0.010	< 0.000						mg/l	mg/d			
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< 0.005	< 0.1						mg/l	mg/d			
12V. Dichlorobromomethane (75-27-4)			X	< 0.005	< 0.1						mg/l	mg/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X	< 0.005	< 0.1						mg/l	mg/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< 0.005	< 0.1						mg/l	mg/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< 0.005	< 0.1						mg/l	mg/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< 0.005	< 0.1						mg/l	kg/d			
18V. 1,3-Dichloropropylene (542-75-6)			X	<	< 0.0						mg/l	mg/d			
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 0.1						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 0.2						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUE ON PAGE V-5

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515 | OUTFALL NUMBER 04A | Approval No. 2040-0086 Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 0.1						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< 0.005	< 0.1						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< 0.005	< 0.1						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< 0.005	< 0.1						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< 0.005	< 0.1						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< 0.005	< 0.1						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< 0.005	< 0.1						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< 0.005	< 0.1						mg/l	mg/d			
30V. Trichlorofluoromethane (75-69-4)			X	< 0.005	< 0.1						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 0.2						mg/l	mg/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	< 0.010	< 0.2						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< 0.010	< 0.2						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< 0.010	< 0.2						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	< 0.010	< 0.2						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< 0.010	< 0.2						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< 0.010	< 0.2						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 0.2						mg/l	mg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< 0.010	< 0.2						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< 0.010	< 0.2						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< 0.010	< 0.2						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	< 0.010	< 0.2						mg/l	mg/d			
2B. Acenaphtylene (208-96-8)			X	< 0.010	< 0.2						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< 0.010	< 0.2						mg/l	mg/d			
4B. Benzidine (92-87-5)			X	< 0.010	< 0.2						mg/l	mg/d			
5B. Benzo *(a)* Anthracene (56-55-3)			X	< 0.010	< 0.2						mg/l	mg/d			
6B. Benzo *(a)* Pyrene (50-32-8)			X	< 0.010	< 0.2						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	< 0.010	< 0.2						mg/l	mg/d			
8B. Benzo *(ghi)* Perylene (191-24-2)			X	< 0.010	< 0.2						mg/l	mg/d			
9B. Benzo *(k)* Fluoranthene (207-08-9)			X	< 0.010	< 0.2						mg/l	mg/d			
10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1)			X	< 0.010	< 0.2						mg/l	mg/d			
11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4)			X	< 0.010	< 0.2						mg/l	mg/d			
12B. Bis *(2-Chloroisa-propyl)* Ether (102-60-1)			X	< 0.010	< 0.2						mg/l	mg/d			
13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7)			X	< 0.010	< 0.2						mg/l	mg/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	< 0.010	< 0.2						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< 0.010	< 0.2						mg/l	mg/d			
16B. 2-Chloro-naphthalene (91-58-7)			X	< 0.010	< 0.2						mg/l	mg/d			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	< 0.010	< 0.2						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< 0.010	< 0.2						mg/l	mg/d			
19B. Dibenzo *(a,h)* Anthracene (53-70-3)			X	< 0.010	< 0.2						mg/l	mg/d			
20B. 1,2-Dichloro-benzene (95-50-1)			X	< 0.010	< 0.2						mg/l	mg/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUE ON PAGE V-7

EPA I.D. NUMBER from of F OUTFALL NUMBER
NM0890010515 04A

Form Approved. OMB No. 2040-
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< 0.010	< 0.2						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 0.2						mg/l	mg/d			
24B. Diethyl Phthalate (84-66-2)			X	< 0.010	< 0.2						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 0.2						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 0.2						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 0.2						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (606-20-2)			X	< 0.010	< 0.2						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 0.2						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7)			X	< 0.010	< 0.2						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< 0.010	< 0.2						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 0.2						mg/l	mg/d			
33B. Hexachlorobenzene (118-74-1)			X	< 0.010	< 0.2						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 0.2						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 0.2						mg/l	mg/d			
36B. Hexachloroethane (67-72-1)			X	< 0.010	< 0.2						mg/l	mg/d			
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)			X	< 0.010	< 0.2						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 0.2						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 0.2						mg/l	mg/d			
40B. Nitrobenzene (98-95-3)			X	< 0.010	< 0.2						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< 0.010	< 0.2						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< 0.010	< 0.2						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 0.2						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 0.2						mg/l	mg/d			
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	< 0.010	< 0.2						mg/l	mg/d			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	< 0.06	< 1.1						ug/l	ug/d			
2P. α-BHC (319-84-6)			X	< 0.02	< 0.4						ug/l	ug/d			
3P. β-BHC (319-85-7)			X	< 0.1	< 1.9						ug/l	ug/d			
4P. γ-BHC (58-89-9)			X	< 0.03	< 0.6						ug/l	ug/d			
5P. δ-BHC (319-86-8)			X	< 0.12	< 2.3						ug/l	ug/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 4.7						ug/l	ug/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 1.1						ug/l	ug/d			
8P. 4,4'-DDE (72-55-9)			X	< 0.08	< 1.5						ug/l	ug/d			
9P. 4,4'-DDD (72-54-8)			X	< 0.08	< 1.5						ug/l	ug/d			
10P. Dieldrin (60-57-1)			X	< 0.08	< 1.5						ug/l	ug/d			
11P. α-Endosulfan (115-29-7)			X	< 0.05	< 0.9						ug/l	ug/d			
12P. β-Endosulfan (115-29-7)			X	< 0.08	< 1.5						ug/l	ug/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< 0.09	< 1.7						ug/l	ug/d			
14P. Endrin (72-20-8)			X	< 0.06	< 1.1						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.62	< 11.7						ug/l	ug/d			
16P. Heptachlor (76-44-8)			X	< 0.3	< 5.7						ug/l	ug/d			

CONTINUE ON PAGE V-9

EPA I.D. NUMBER (copy from Item I of Page 1): NM0890010515

OUTFALL NUMBER: 04A

Form Approved OMB No. 2040-0086 Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X	< 0.04	< 0.8						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< 0.68	< 12.9						ug/l	ug/d			
19P. PCB-1254 (11097-69-1)			X	< 0.68	< 12.9						ug/l	ug/d			
20P. PCB-1221 (11104-28-2)			X	N.D.											
21P. PCB-1232 (11141-16-5)			X	N.D.											
22P. PCB-1248 (12672-29-6)			X	N.D.											
23P. PCB-1260 (11096-82-5)			X	< 0.68	< 12.9						ug/l	ug/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 47.3						ug/l	ug/d			

OUTFALL 46-77-OPN-6 FLOW DIAGRAM

Please type or print in the unshaded areas only

EPA ID Number *(copy from Item 1 of Form 1)*
NM0890010515

Form Approved
OMB No. 2040-0086
Approval expires 7-31-88

Form **2D** NPDES

New Sources and New Dischargers
EPA Application for Permit to Discharge Process Wastewater

utfall Location

For each outfall, list the latitude and longitude, and the name of the receiving water.

Outfall Number *(list)*	Latitude			Longitude			Receiving Water *(name)*
	Deg	Min	Sec	Deg	Min	Sec	
46-77-OPN-7	35	51	15	106	16	55	Tributary to Canada Del Buey, an ephemeral tributary
							to the Rio Grande

II. Discharge Date *(When do you expect to begin discharging?)*

Active discharge noted during waste stream characterization.

III. Flows, Sources of Pollution, and Treatment Technologies

A. For each outfall, provide a description of (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

Outfall Number	1. Operations Contributing Flow *(list)*	2. Average Flow *(include units)*	3. Treatment *(Description or List Codes from Table 2D-1)*
46-77-OPN-7	Sink drain	10 GPD	None

B. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item III-A. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

C. Except for storm runoff, leaks, or spills, will any of the discharges described in item III-A be intermittent or seasonal?

☒ Yes *(complete the following table)* ☐ No *(go to item IV)*

Outfall Number	1. Frequency		2. Flow		
	a. Days Per Week *(specify average)*	b. Months Per Year *(specify average)*	a. Maximum Daily Flow Rate *(in mgd)*	b. Maximum Total Volume *(specify with units)*	c. Duration *(in days)*
46-77-OPN-7	5	12	.00001	10 GPD	260

IV. Production

If there is an applicable production-based effluent guideline or NSPS, for each outfall list the estimated level of production (projection of actual production level, not design), expressed in the terms and units used in the applicable effluent guideline or NSPS, for each of the first 3 years of operation. If production is likely to vary, you may also submit alternative estimates (attach a separate sheet).

Year	a. Quantity Per Day	b. Units of Measure	c. Operation, Product, Material, etc *(specify)*
			N/A

 CONTINUE ON NEXT PAGE

CONTINUED FROM THE FRONT	EPA ID Number *(copy from Item 1 of Form 1)* NM0890010515	Outfall Number 46-77-OPN-7

V. Effluent Characteristics

A, and B: These items require you to report estimated amounts *(both concentration and mass)* of the pollutants to be discharged from each of your outfalls. Each part of this item addresses a different set of pollutants and should be completed in accordance with the specific instructions for that part. Data for each outfall should be on a separate page. Attach additional sheets of paper if necessary.

General Instructions *(See table 2D-2 for Pollutants)*

Each part of this item requests you to provide an estimated daily maximum and average for certain pollutants and the source of information. Data for all pollutants in Group A, for all outfalls, must be submitted unless waived by the permitting authority. For all outfalls, data for pollutants in Group B should be reported only for pollutants which you believe will be present or are limited directly by an effluent limitations guideline or NSPS or indirectly through limitations on an indicator pollutant.

1. Pollutant	2. Maximum Daily Value *(include units)*	3. Average Daily Value *(include units)*	4. Source *(see instructions)*
See attached 04A datasheets			Data from similar plants
Discharge is consistent with potable			
water.			

CONTINUED FROM THE FRONT	EPA ID Number *(copy from Item 1 of Form 1)* NM0890010515	

C. Use the space below to list any of the pollutants listed in Table 2D-3 of the instructions which you know or have reason to believe will be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it will be present.

1. Pollutant	2. Reason for Discharge
None	

VI. Engineering Report on Wastewater Treatment

A. If there is any technical evaluation concerning your wastewater treatment, including engineering reports or pilot plant studies, check the appropriate box below.

☒ Report Available ☐ No Report Waste Stream Characterization Report #65

B. Provide the name and location of any existing plant(s) which, to the best of your knowledge, resembles this production facility with respect to production processes, wastewater constituents, or wastewater treatments.

Name	Location
N/A	

EPA ID Number *(copy from item one of Form 1)*
NM0890010515

VII. Other Information *(Optional)*

Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the proposed facility. Attach additional sheets if necessary.

See attached 04A datasheets and flow diagram. Discharge is consistent with potable water and hand washing activities.

VIII. Certification

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 violations.

A. Name and Official Title *(type or print)*	B. Phone No.
JERRY L. BELLOWS, AREA MANAGER, DOE ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	505-667-5105 505-667-9390
C. Signature	D. Date Signed

*U.S. Government Printing Office : 1986 -491-191/52940

Data from worst case composite.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: NM0890010515

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO. 04A

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	< 2.0	< 75.7						mg/l	g/d			
b. Chemical Oxygen Demand *(COD)*	< 10.0	< 0.4						mg/l	g/d			
c. Total Organic Carbon *(TOC)*	0.6	22.3						mg/l	g/d			
d. Total Suspended Solids *(TSS)*	18.0	0.7						mg/l	g/d			
e. Ammonia *(as N)*	< 0.1	< 3.785						mg/l	g/d			
f. Flow	VALUE 10		VALUE		VALUE			gal/day		VALUE		
g. Temperature *(winter)*	VALUE 13.9		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE N/A		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 8.45	MAXIMUM 8.80	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X	< 0.5	< 18.9						mg/l	g/d			
b. Chlorine, Total Residual	X		0.05	0.0						mg/l	mg/d			
c. Color	X		7.0							units				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		0.21	7.9						mg/l	g/d			
f. Nitrate—Nitrite *(as N)*	X		0.304	11.5						mg/l	g/d			

CONTINUE ON REVERSE

1. POLLUTANT AND CAS NO. (If available)	MARK 'X' a. ABSENT	MARK 'X' b. ACHIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (If available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (If available) (2) MASS	c. LONG TERM AVRG. VALUE (If available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (If available) (2) MASS	d. NO. OF ANALYSES	2. UNITS a. CONCENTRATION	2. UNITS b. MASS	3. INTAKE a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	3. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	3. INTAKE b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X	< 0.5	< 18.9						mg/l	mg/d			
h. Oil and Grease		X	< 1.05	< 39.7						mg/l	mg/d			
i. Phosphorus (as P), Total (7723-14-0)	X		0.05	1.9						mg/l	mg/d			
j. Radioactivity														
(1) Alpha, Total	X		0.1	3.8						pCi/l	pCi/d			
(2) Beta, Total	X		6.6	0.2						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		0.06	2.3						pCi/l	pCi/d			
k. Sulfate (as SO_4) (14808-79-8)	X		3.16	0.1						mg/l	g/d			
l. Sulfide (as S)		X		0.0						mg/l	mg/d			
m. Sulfite (as SO_3) (14265-45-3)		X	< 0.05	< 1.9						mg/l	mg/d			
n. Surfactants		X	< 0.1	< 3.8						mg/l	mg/d			
o. Aluminum, Total (7429-90-5)		X	< 0.04	< 1.5						mg/l	mg/d			
p. Barium, Total (7440-39-3)	X		0.03	1.1						mg/l	mg/d			
q. Boron, Total (7440-42-8)	X		0.02	0.8						mg/l	mg/d			
r. Cobalt, Total (7440-48-4)		X	< 0.1	< 3.8						mg/l	mg/d			
s. Iron, Total (7439-89-6)	X		0.41	15.5						mg/l	mg/d			
t. Magnesium, Total (7439-95-4)	X		2.5	94.6						mg/l	mg/d			
u. Molybdenum, Total (7439-98-7)		X	< 0.02	< 0.8						mg/l	mg/d			
v. Manganese, Total (7439-96-5)	X		0.01	0.4						mg/l	mg/d			
w. Tin, Total (7440-31-5)		X	< 0.050	< 1.9						mg/l	mg/d			
x. Titanium, Total (7440-32-6)		X	< 0.004	< 0.2						mg/l	mg/d			

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	04A

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X	< 0.050	< 1.9						mg/l	mg/d			
2M. Arsenic, Total (7440-38-2)		X		0.002	0.1						mg/l	mg/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.001	< 0.0						mg/l	mg/d			
4M. Cadmium, Total (7440-43-9)			X	< 0.010	< 0.4						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		0.040	1.5						mg/l	mg/d			
6M. Copper, Total (7440-50-8)		X		0.031	1.2						mg/l	mg/d			
7M. Lead, Total (7439-92-1)			X	< 0.050	< 1.9						mg/l	mg/d			
8M. Mercury, Total (7439-97-6)			X	< 0.0002	< 0.00						mg/l	mg/d			
9M. Nickel, Total (7440-02-0)		X		0.06	2.3						mg/l	mg/d			
10M. Selenium, Total (7782-49-2)			X	< 0.001	< 0.0						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< 0.010	< 0.4						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)			X	< 0.4	< 15.1						mg/l	mg/d			
13M. Zinc, Total (7440-66-6)		X		0.043	1.6						mg/l	mg/d			
14M. Cyanide, Total (57-12-5)			X	0.01	0.4						mg/l	mg/d			
15M. Phenols, Total			X	< 0.01	< 0.4						mg/l	mg/d			
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X	< 0.005	< 0.2						mg/l	mg/d			
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< 0.005	< 0.2						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 0.2						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 0.2						mg/l	mg/d			
8V. Chlorodibromomethane (124-48-1)			X	< 0.005	< 0.2						mg/l	mg/d			
9V. Chloroethane (75-00-3)			X	< 0.010	< 0.000						mg/l	mg/d			
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< 0.005	< 0.2						mg/l	mg/d			
12V. Dichlorobromomethane (75-27-4)			X	< 0.005	< 0.2						mg/l	mg/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X	< 0.005	< 0.2						mg/l	mg/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< 0.005	< 0.2						mg/l	mg/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< 0.005	< 0.2						mg/l	mg/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< 0.005	< 0.2						mg/l	kg/d			
18V. 1,3-Dichloropropylene (542-75-6)			X	<	< 0.0						mg/l	mg/d			
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 0.2						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 0.4						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 0.4						mg/l	mg/d			

CONTINUE ON PAGE V-5

EP[redacted] NUM[redacted] NM0890010515 [redacted] 04A [redacted] Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 0.2						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< 0.005	< 0.2						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< 0.005	< 0.2						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< 0.005	< 0.2						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< 0.005	< 0.2						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< 0.005	< 0.2						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< 0.005	< 0.2						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< 0.005	< 0.2						mg/l	mg/d			
30V. Trichlorofluoromethane (75-69-4)			X	< 0.005	< 0.2						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 0.4						mg/l	mg/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	< 0.010	< 0.4						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< 0.010	< 0.4						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< 0.010	< 0.4						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	< 0.010	< 0.4						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< 0.010	< 0.4						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< 0.010	< 0.4						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 0.4						mg/l	mg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< 0.010	< 0.4						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< 0.010	< 0.4						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< 0.010	< 0.4						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< 0.010	< 0.4						mg/l	mg/d			

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	< 0.010	< 0.4						mg/l	mg/d			
2B. Acenaphtylene (208-96-8)			X	< 0.010	< 0.4						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< 0.010	< 0.4						mg/l	mg/d			
4B. Benzidine (92-87-5)			X	< 0.010	< 0.4						mg/l	mg/d			
5B. Benzo *(a)* Anthracene (56-55-3)			X	< 0.010	< 0.4						mg/l	mg/d			
6B. Benzo *(a)* Pyrene (50-32-8)			X	< 0.010	< 0.4						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	< 0.010	< 0.4						mg/l	mg/d			
8B. Benzo *(ghi)* Perylene (191-24-2)			X	< 0.010	< 0.4						mg/l	mg/d			
9B. Benzo *(k)* Fluoranthene (207-08-9)			X	< 0.010	< 0.4						mg/l	mg/d			
10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1)			X	< 0.010	< 0.4						mg/l	mg/d			
11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4)			X	< 0.010	< 0.4						mg/l	mg/d			
12B. Bis *(2-Chloroiso-propyl)* Ether (102-60-1)			X	< 0.010	< 0.4						mg/l	mg/d			
13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7)			X	< 0.010	< 0.4						mg/l	mg/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	< 0.010	< 0.4						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< 0.010	< 0.4						mg/l	mg/d			
16B. 2-Chloro-naphthalene (91-58-7)			X	< 0.010	< 0.4						mg/l	mg/d			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	< 0.010	< 0.4						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< 0.010	< 0.4						mg/l	mg/d			
19B. Dibenzo *(a,h)* Anthracene (53-70-3)			X	< 0.010	< 0.4						mg/l	mg/d			
20B. 1,2-Dichloro-benzene (95-50-1)			X	< 0.010	< 0.4						mg/l	mg/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< 0.010	< 0.4						mg/l	mg/d			

CONTINUE ON PAGE V-7

EPA I.D. NUMBER (from page 1 of 2): NM0890010515 | OUTFALL NUMBER: 04A

Form Approved. OMB No. 2040-[illegible] Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< 0.010	< 0.4						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 0.4						mg/l	mg/d			
24B. Diethyl Phthalate (84-66-2)			X	< 0.010	< 0.4						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 0.4						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 0.4						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 0.4						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (606-20-2)			X	< 0.010	< 0.4						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 0.4						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X	< 0.010	< 0.4						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< 0.010	< 0.4						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 0.4						mg/l	mg/d			
33B. Hexachlorobenzene (118-74-1)			X	< 0.010	< 0.4						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 0.4						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 0.4						mg/l	mg/d			
36B. Hexachloroethane (67-72-1)			X	< 0.010	< 0.4						mg/l	mg/d			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	< 0.010	< 0.4						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 0.4						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 0.4						mg/l	mg/d			
40B. Nitrobenzene (98-95-3)			X	< 0.010	< 0.4						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< 0.010	< 0.4						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< 0.010	< 0.4						mg/l	mg/d			

CONTINUED FROM THE FRONT

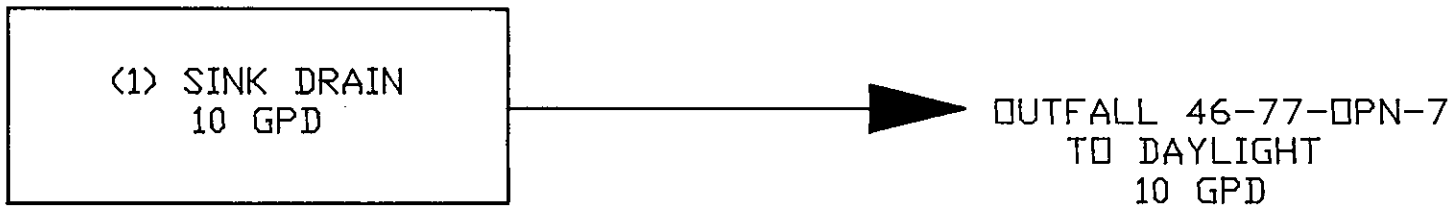
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< 0.010	< 0.4						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 0.4						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 0.4						mg/l	mg/d			
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	< 0.010	< 0.4						mg/l	mg/d			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	< 0.06	< 2.3						ug/l	ug/d			
2P. α-BHC (319-84-6)			X	< 0.02	< 0.8						ug/l	ug/d			
3P. β-BHC (319-85-7)			X	< 0.1	< 3.8						ug/l	ug/d			
4P. γ-BHC (58-89-9)			X	< 0.03	< 1.1						ug/l	ug/d			
5P. δ-BHC (319-86-8)			X	< 0.12	< 4.5						ug/l	ug/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 9.5						ug/l	ug/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 2.3						ug/l	ug/d			
8P. 4,4'-DDE (72-55-9)			X	< 0.08	< 3.0						ug/l	ug/d			
9P. 4,4'-DDD (72-54-8)			X	< 0.08	< 3.0						ug/l	ug/d			
10P. Dieldrin (60-57-1)			X	< 0.08	< 3.0						ug/l	ug/d			
11P. α-Endosulfan (115-29-7)			X	< 0.05	< 1.9						ug/l	ug/d			
12P. β-Endosulfan (115-29-7)			X	< 0.08	< 3.0						ug/l	ug/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< 0.09	< 3.4						ug/l	ug/d			
14P. Endrin (72-20-8)			X	< 0.06	< 2.3						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.62	< 23.5						ug/l	ug/d			
16P. Heptachlor (76-44-8)			X	< 0.3	< 11.4						ug/l	ug/d			

CONTINUE ON PAGE V-9

EPA I.D. NUMBER (copy from Item I of Page 1) NM0890010515 OUTFALL NUMBER 04A

Form Approved. OMB [redacted]0-008[redacted] Approval expires 7-31-88

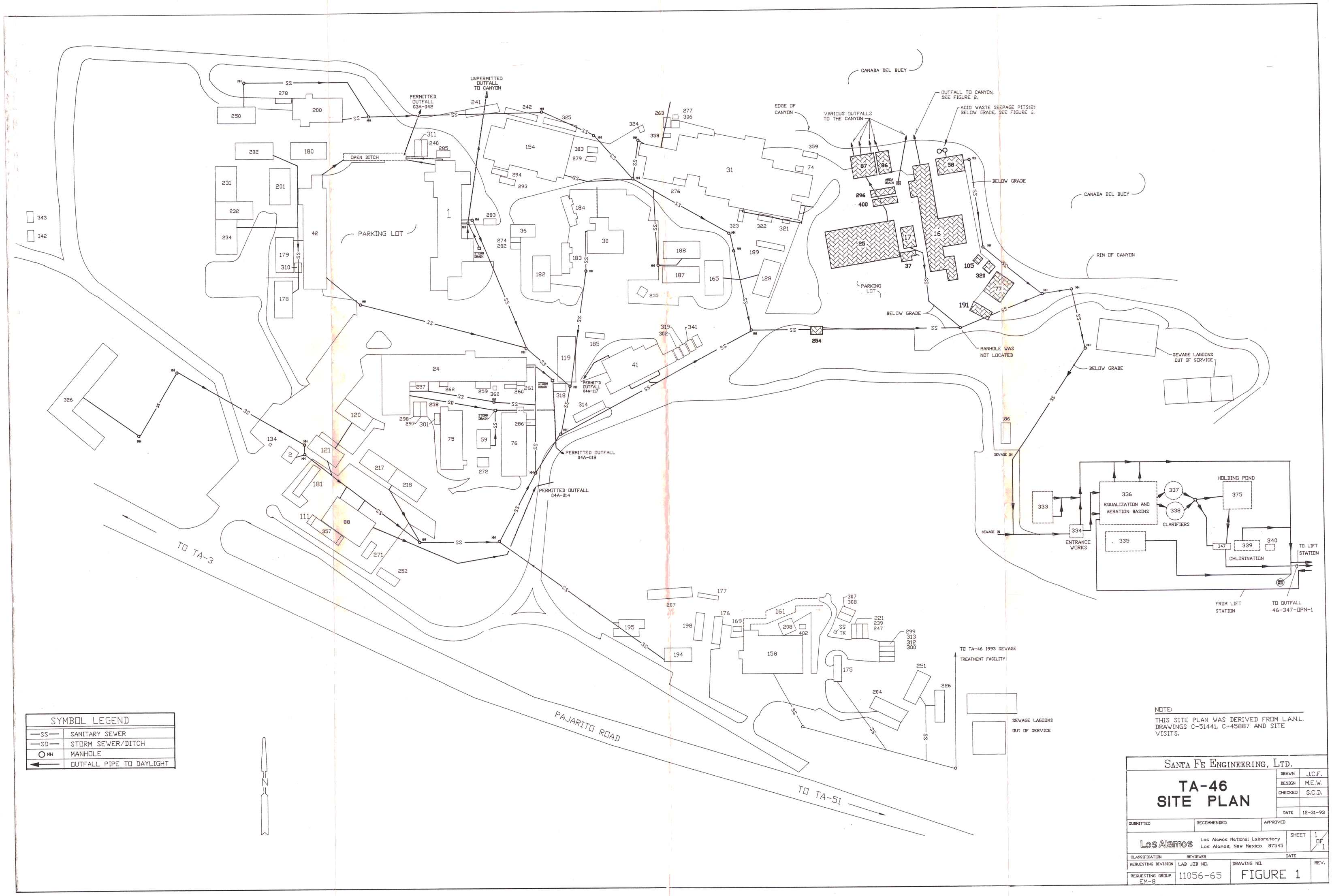
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION — PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X	< 0.04	< 1.5						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< 0.68	< 25.7						ug/l	ug/d			
19P. PCB-1254 (11097-69-1)			X	< 0.68	< 25.7						ug/l	ug/d			
20P. PCB-1221 (11104-28-2)			X	N.D.											
21P. PCB-1232 (11141-16-5)			X	N.D.											
22P. PCB-1248 (12672-29-6)			X	N.D.											
23P. PCB-1260 (11096-82-5)			X	< 0.68	< 25.7						ug/l	ug/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 94.6						ug/l	ug/d			



OUTFALL 46-77-OPN-7 FLOW DIAGRAM

DYE STUDY INFORMATION

BUILDING NUMBER	DRAIN NUMBER	DID DYE REACH EXPECTED DESTINATION?	COMMENTS
46-16	BFD3	NO	PIPE TO S.S.
46-16	BFD6	NO	PIPE TO S.S.
46-16	1CD2	NO	PIPE TO S.S.
46-16	1FD2	NO	PIPE TO S.S.
46-16	1FD6	NO	PIPE TO S.S.
46-16	1SD1	NO	PIPE TO S.S.
46-16	1SD2	NO	PIPE TO S.S.
46-16	1SD3	NO	PIPE TO S.S.
46-17	1ED1	YES	NONE
46-17	1SD1	YES	NONE
46-17	1TL1	YES	NONE
46-25	1CD1	YES	NONE
46-25	RD2	YES	NONE
46-25	1SD1	NO	PIPE TO S.S.
46-25	1SD2	NO	PIPE TO S.S.
46-37	1FD1	NO	PERMIT/PLUG
46-37	1FD2	NO	PERMIT/PLUG
46-58	1FS1	YES	NONE
46-58	1SD1	YES	ELIMINATE SINK
46-58	1SD3	YES	NONE
46-58	1TL1	YES	NONE
46-77	1SD1	NO	ELIMINATE SINK
46-77	1WF1	NO	ELIMINATE WATER FOUNTAIN
46-87	RD1	YES	NONE
46-87	RD2	YES	NONE
46-191	1TL1	YES	NONE



SYMBOL LEGEND	
—SS—	SANITARY SEWER
—SD—	STORM SEWER/DITCH
○ MH	MANHOLE
⟵	OUTFALL PIPE TO DAYLIGHT

NOTE:

THIS SITE PLAN WAS DERIVED FROM L.A.N.L. DRAWINGS C-51441, C-45887 AND SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA-46 SITE PLAN

DRAWN	J.C.F.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	12-31-93

SUBMITTED | RECOMMENDED | APPROVED

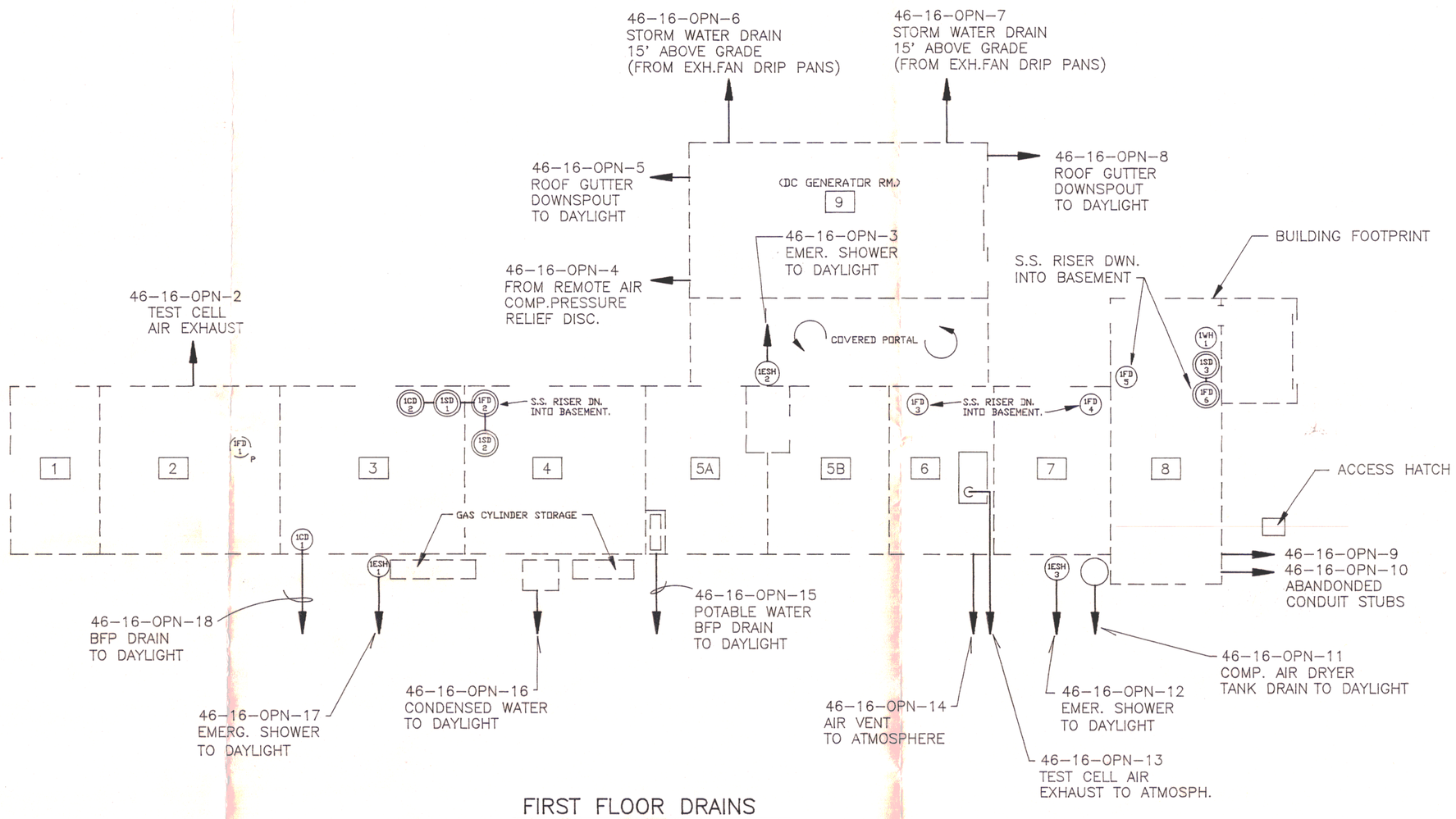
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP CM-8 | 11056-65 | FIGURE 1



FIRST FLOOR DRAINS

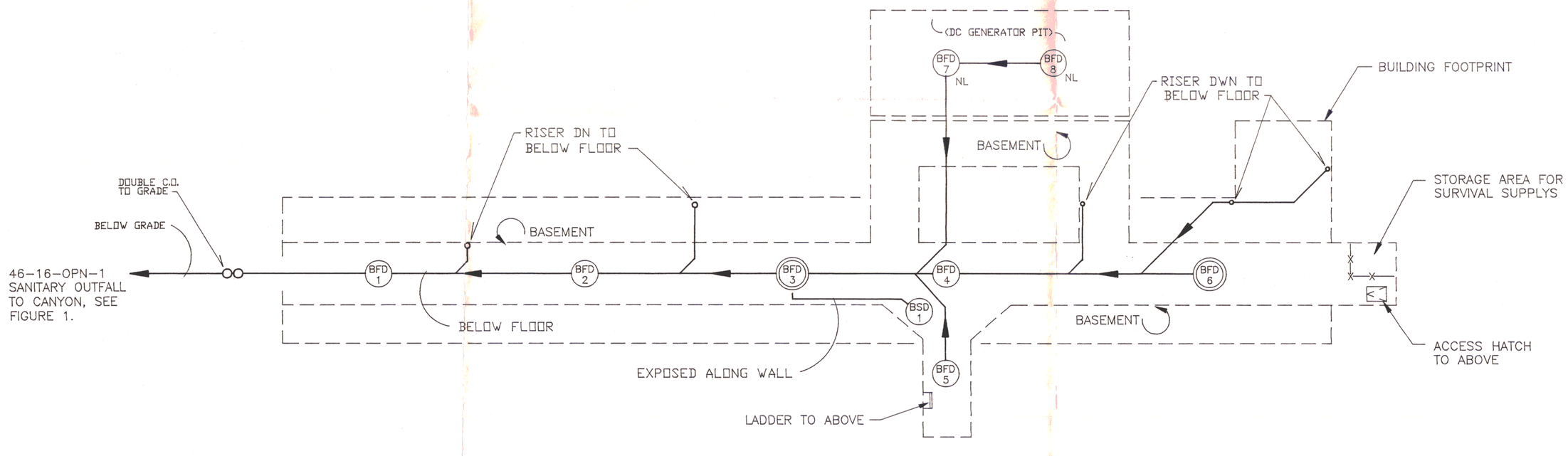
NOT TO SCALE

SYMBOL LEGEND	
"B"	BASEMENT
BFP	BACKFLOW PREVENTER
CD	CUP DRAIN
ESH	EMERGENCY SHOWER
FD	FLOOR DRAIN
SD	SINK DRAIN
SD	SINK DRAIN
WH	WATER HEATER

DYE TESTED DRAIN

P DRAIN HAS BEEN PLUGGED

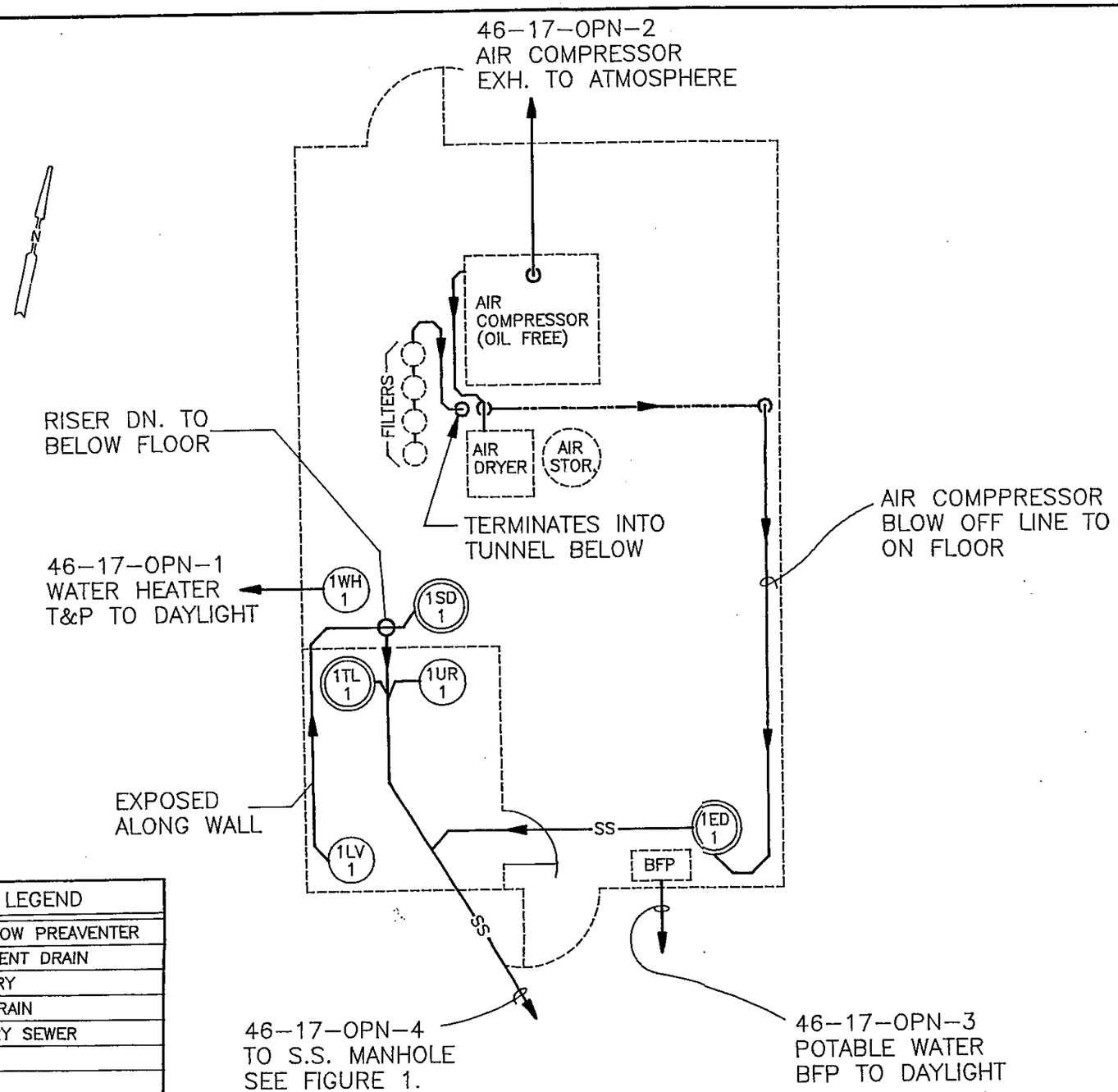
NL DRAIN WAS NOT LOCATED



BASEMENT DRAINS

NOT TO SCALE

SANTA FE ENGINEERING, LTD.			
TA46-16 DRAIN SCHEMATIC		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	S.C.D.
		DATE	12-31-93
SUBMITTED	RECOMMENDED	APPROVED	
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545		SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-65	FIGURE 2	



SYMBOL LEGEND	
BFP	BACKFLOW PREAVENTER
ED	EQUIPMENT DRAIN
LV	LAVATORY
SD	SINK DRAIN
—SS—	SANITARY SEWER
TL	TOILET
UR	URNIAL
WF	WATER FOUNTAIN
WH	WATER HEATER

DYE TESTED DRAIN

NOTES:
THID DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA-46-17 UTILITY BUILDING DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	12/31/93

SUBMITTED | RECOMMENDED | APPROVED

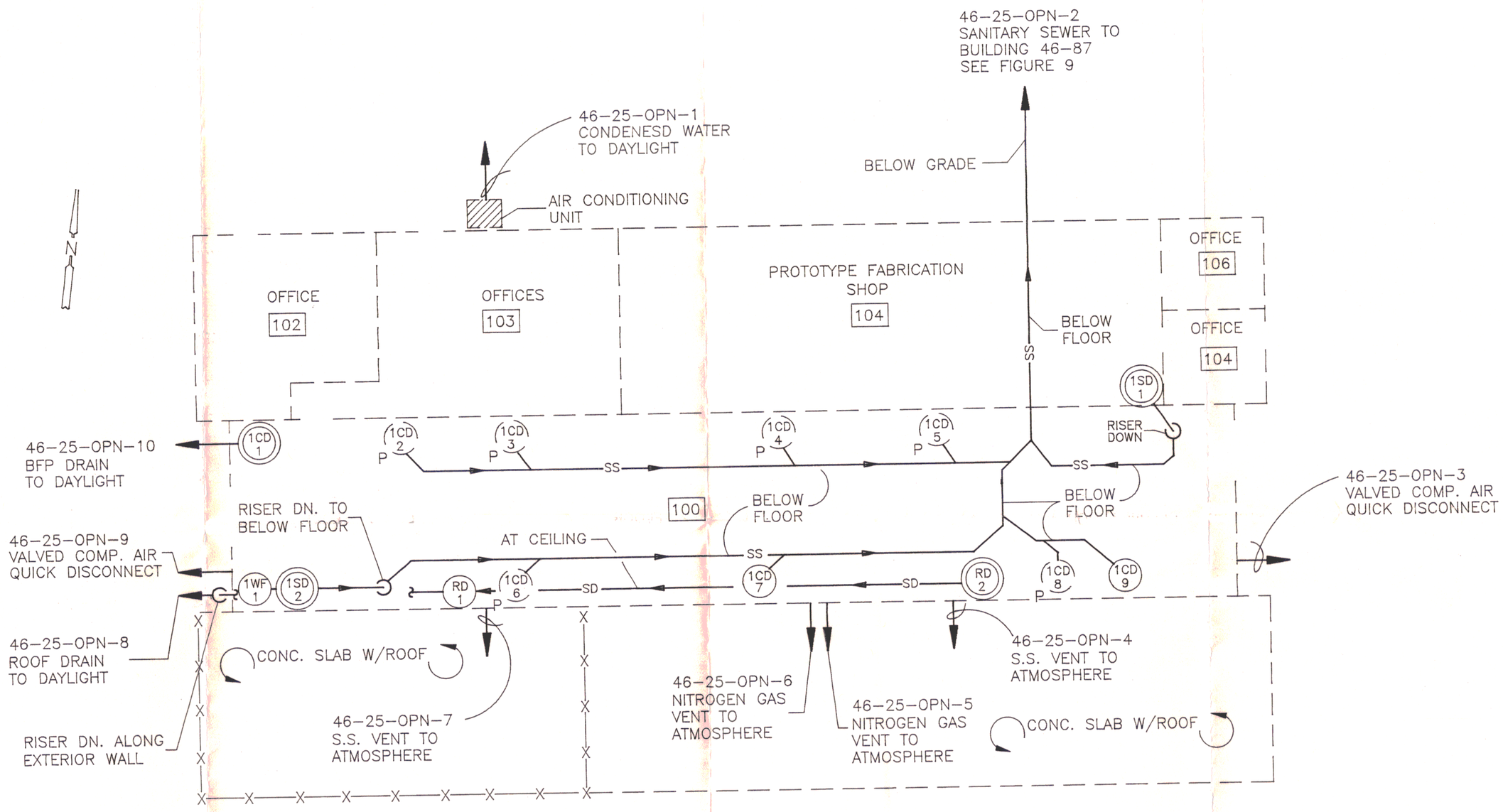
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP EM-8 | 11056-65 | FIGURE 3



SYMBOL LEGEND	
CD	CUP DRAIN
RD	ROOF DRAIN
SD	SINK DRAIN
—SD—	STORM SEWER PIPE
SS	SANITARY SEWER PIPE
WF	WATER FOUNTAIN

DYE TESTED DRAIN

P PLUGGED DRAIN

SANTA FE ENGINEERING, LTD.

TA-46-25
FIRST FLOOR
DRAIN SCHEMATIC

DRAWN	R.L.P.
DESIGN	M.E.W.
CHECKED	S.C.D
DATE	12/31/93

SUBMITTED | RECOMMENDED | APPROVED

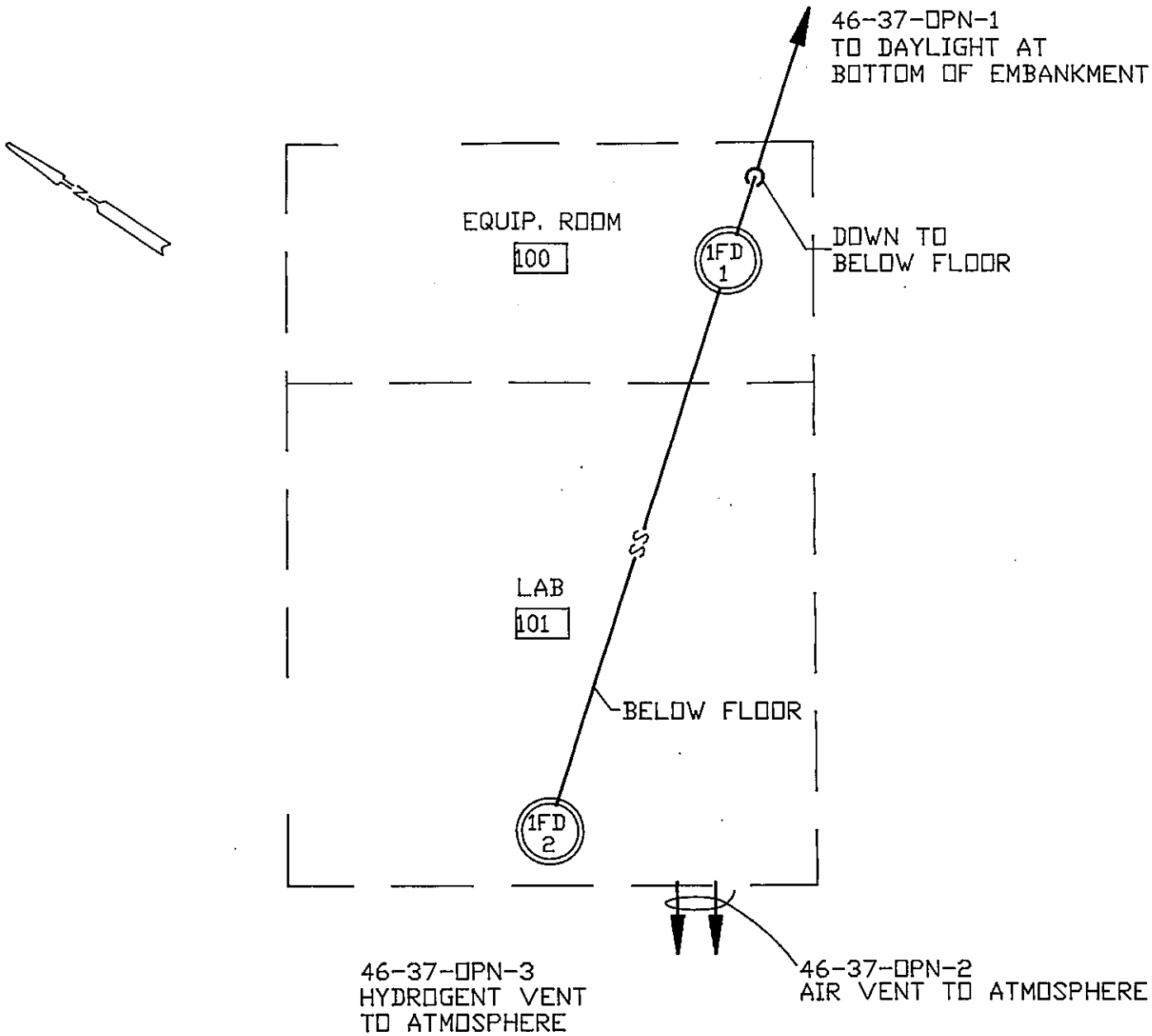
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP EM-8 | 11056-65 | FIGURE 4



SYMBOL LEGEND	
FD	FLOOR DRAIN
—SS—	SANITARY SEWER

DYE TESTED DRAIN

NOTE:
THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA-46-37 DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D
DATE	12/31/93

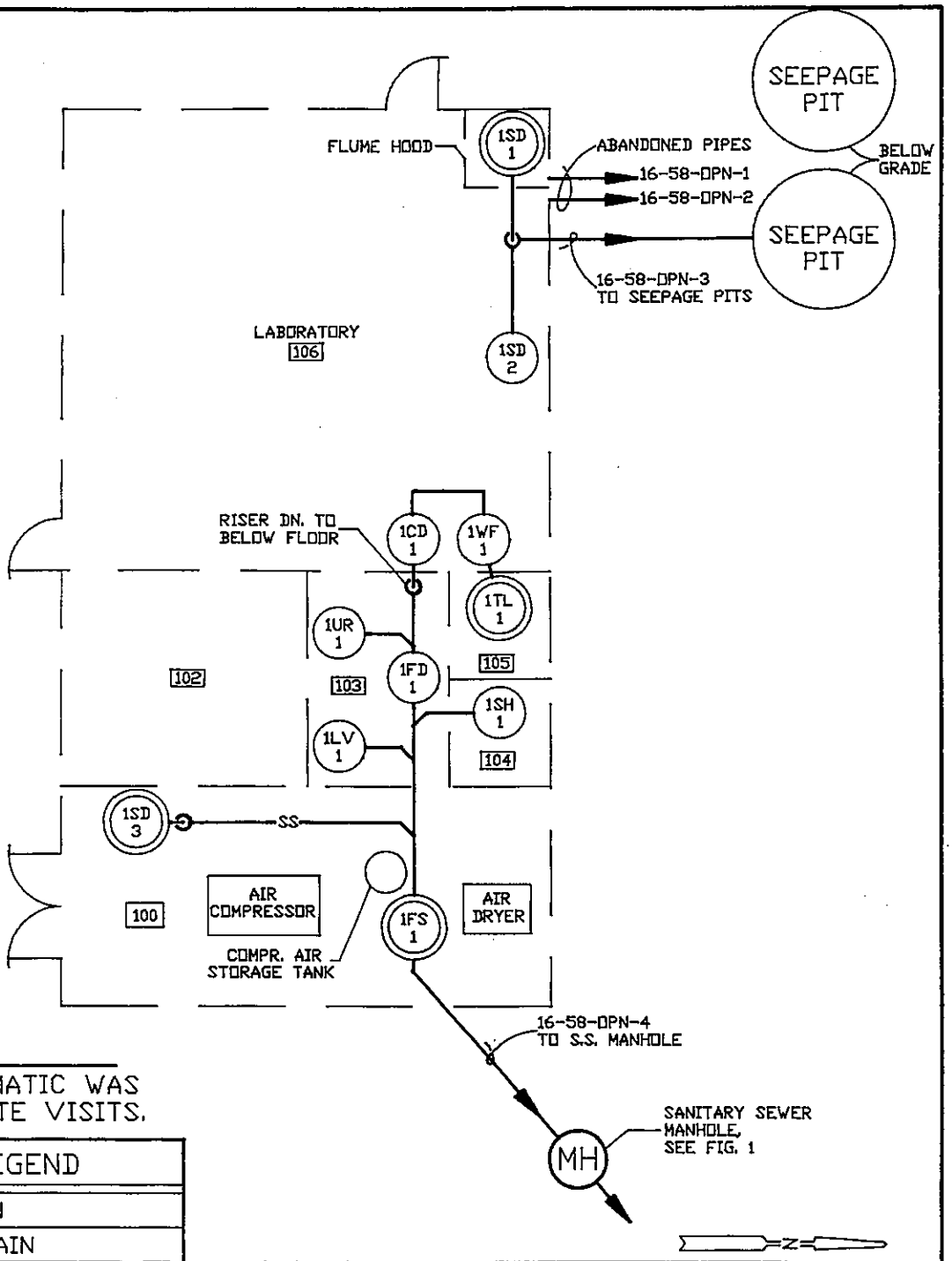
SUBMITTED | RECOMMENDED | APPROVED —

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-65	FIGURE 5	



NOTES:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SYMBOL LEGEND	
CD	CUP DRAIN
FD	FLOOR DRAIN
FS	FLOOR SINK
LV	LAVORATORY
MH	MANHOLE
SD	SINK DRAIN
SH	SHOWER
—SS—	SANITARY SEWER
TL	TOILET
UR	URNIAL
WF	WATER FOUNTAIN

DYE TESTED DRAIN

SANTA FE ENGINEERING, LTD.

TA-46-58 DRAIN SCHEMATIC

DRAWN	D.A.H.
DESIGN	M.E.W.
CHECKED	S.C.D.
RELEASED	
DATE	12/31/93

SUBMITTED | RECOMMENDED | APPROVED

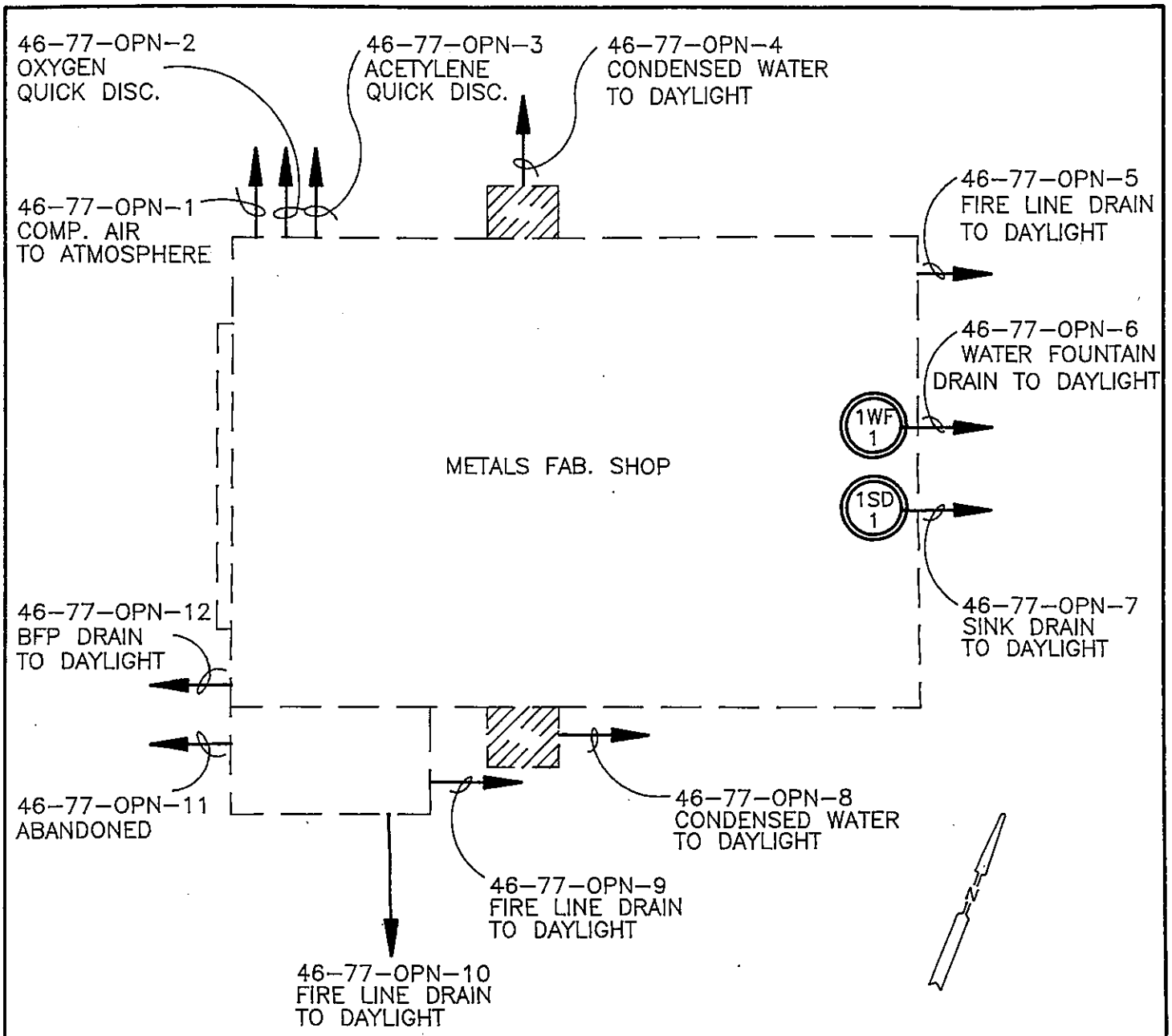
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP EM-8 | 11056-65 | FIGURE 6



NOTES:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SYMBOL LEGEND	
BFP	WATER BACKFLOW PREVENTER
SD	SINK DRAIN
WF	WATER FOUNTAIN

DYE TESTED DRAIN

SANTA FE ENGINEERING, LTD.

TA-46-77 DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W
CHECKED	S.C.D.
DATE	12/31/93

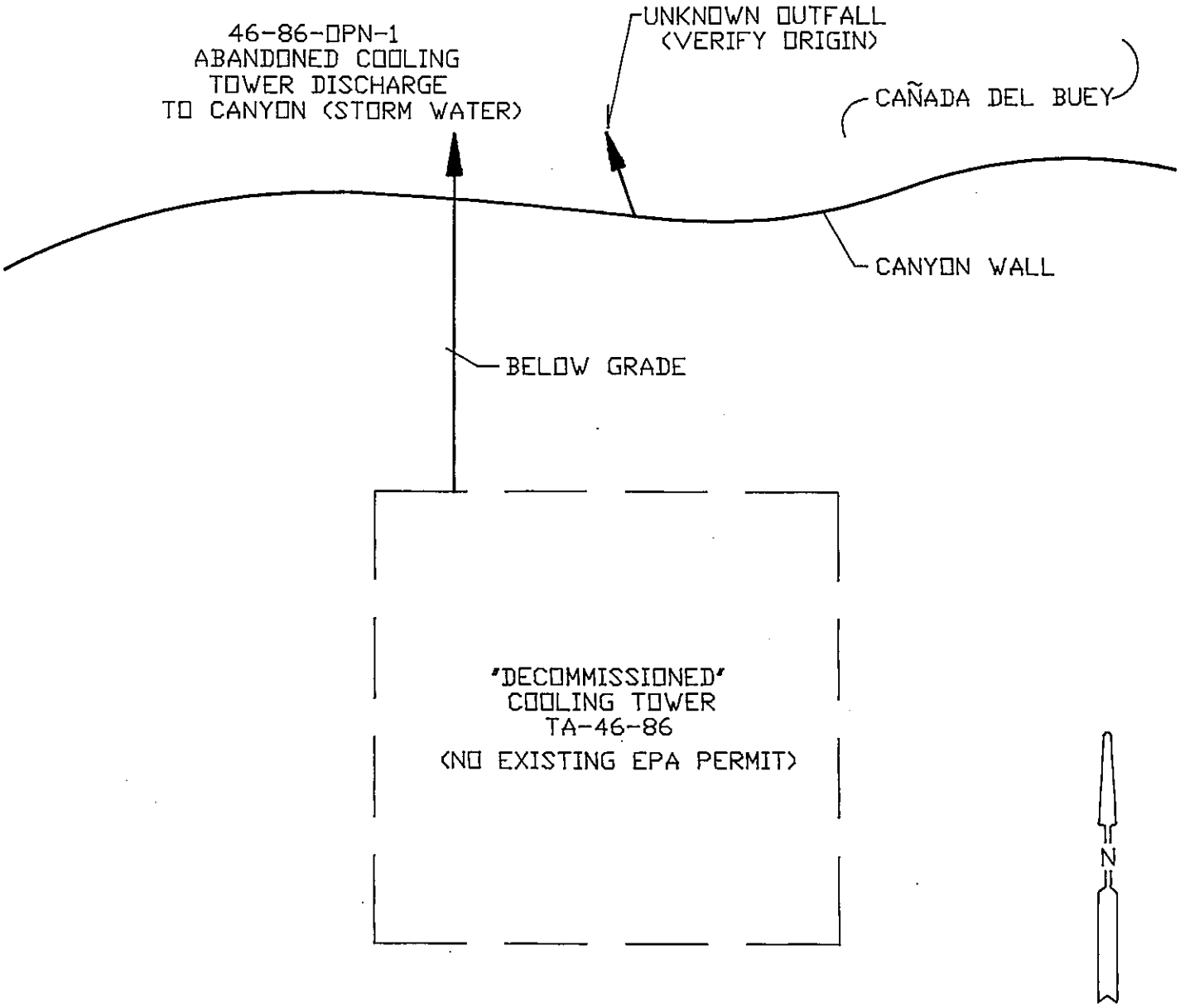
SUBMITTED | RECOMMENDED | APPROVED —

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

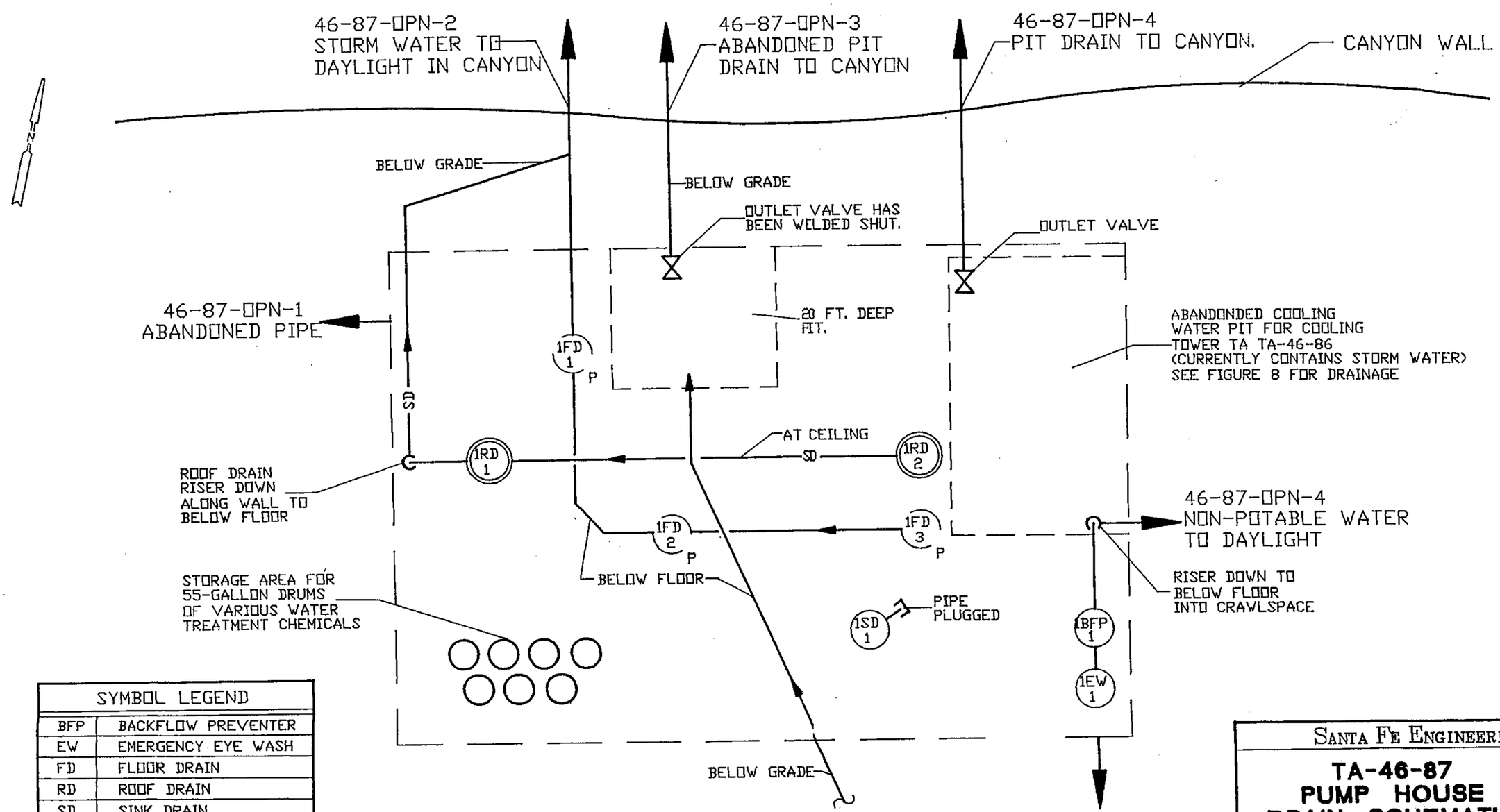
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-65	FIGURE 7	



NOTES:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SANTA FE ENGINEERING, LTD.		
TA-46-86 DECOMMISSIONED COOLING TOWER DRAIN SCHEMATIC	DRAWN	G.S.
	DESIGN	M.E.W.
	CHECKED	S.C.D.
	DATE	12/31/93
SUBMITTED	RECOMMENDED	APPROVED —
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545	SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO. / REV.
REQUESTING GROUP EM-8	11056-65	FIGURE 8



SYMBOL LEGEND	
BFP	BACKFLOW PREVENTER
EW	EMERGENCY EYE WASH
FD	FLOOR DRAIN
RD	ROOF DRAIN
SD	SINK DRAIN
—SS—	URNIAL
—SD—	STORM WATER

DYE TESTED DRAIN

PLUGGED DRAIN

SANTA FE ENGINEERING, LTD.

TA-46-87
PUMP HOUSE
DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	12/31/93

SUBMITTED | RECOMMENDED | APPROVED

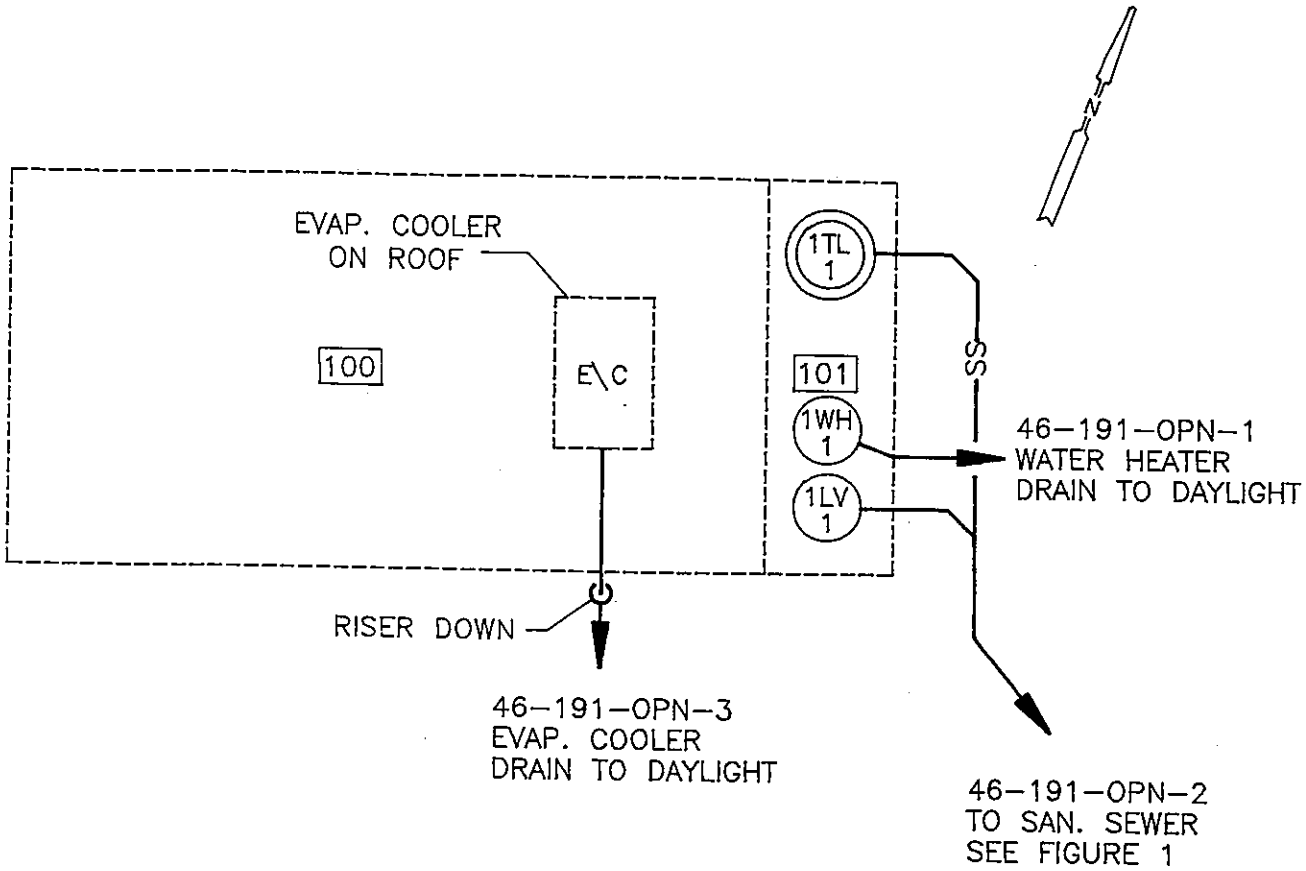
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP EM-8 | 11056-65 | FIGURE 9



NOTES:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SYMBOL LEGEND	
E/C	EVAPORATIVE COOLER
LV	LAVATORY
—SS—	SANITARY SEWER
TL	TOILET

DYE TESTED DRAIN

SANTA FE ENGINEERING, LTD.

TA-46-191 DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	12/31/93

SUBMITTED | RECOMMENDED | APPROVED

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-65	FIGURE 10	