WASTEWATER STREAM CHARACTERIZATION FOR TA 46-158, 161, 169, 175, 176, 177, 194, 195, 198, 204, 207, 208, 221, 226, 239, 247, 251, 253, 299, 300, 307, 308, 312, 313, 333, 334, 335, 336, 337, 338, 339, 340, 347, 375, 376, 402, 12S & 13S

at
Los Alamos National Laboratory

ENVIRONMENTAL STUDY

CHARACTERIZATION REPORT # 68

REVISION NO. 1
REVISION DATE: 15 Feb 94
COPY NO. 3 of 6
ISSUED TO:

15302

MANAGEMENT DIVISION
National Laboratory
New Mexico 87545

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WASTEWATER STREAM CHARACTERIZATION FOR TA 46-158, 161, 169, 175, 176, 177, 194, 195, 198, 204, 207, 208, 221, 226, 239, 247, 251, 253, 299, 300, 307, 308, 312, 313, 333, 334, 335, 336, 337, 338, 339, 340, 347, 375, 376, 402, 12S & 13S

ENVIRONMENTAL STUDY

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

under subcontract 9-XG8-2874P-1

by:
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March, 1993

UPDATED PER ESH-8 COMMENTS FEBRUARY 1994

EXECUTIVE SUMMARY

Buildings 158, 161, 169, 175, 176, 177, 194, 195, 198, 204, 207, 208, 221, 226, 239, 247, 251, 253, 299, 300, 307, 308, 312, 313, 333, 334, 335, 336, 337, 338, 339, 340, 347, 375, 376 and 402 in TA-46 were visited to document all drain piping and to make permitting recommendations. The pipes exiting the building are as follows:

1) from building 46-158: one discharge to the sanitary sewer, three discharges of fire water, one air compressor drain, one discharge to permitted outfall 03A124 and one roof drain,

2) from building 46-161: one discharge to an unknown location and one discharge of fire water,

4) from building 46-169: one outfall permitted as 03A124,

5) from building 46-175: one discharge to the sanitary sewer,

6) from buildings 46-176, 177, 198, 204, 207, 208, 221, 239, 247, 299, 300, 307, 308, 312, 313, 340 and 402: no drains,

7) from building 46-194: one discharge to the sanitary sewer and two roof drains,

8) from building 46-195: one discharge to the sanitary sewer, two sewer vents and six roof drains,

9) from building 46-226: one discharge to the sanitary sewer,

10) from building 46-251: one discharge to the sanitary sewer,

11) from building 46-253: one discharge permitted as 12S

12) from building 46-333: one discharge from a hot water heater, six roof drains and one discharge to the sanitary sewer,

13) from building 46-334: one discharge to the sanitary sewer,

14) from building 46-335: one discharge to the sanitary sewer, three roof drains and one vapor vent,

15) from building 46-336: one discharge to the sanitary sewer,

16) from building 46-337: one discharge to the sanitary sewer,

17) from building 46-338: one discharge to the sanitary sewer,

18) from building 46-339: one discharge to the sanitary sewer, two roof drains, one discharge from a safety shower and one vapor vent,

19) from building 46-347: one discharge to be permitted as 13S,

20) from building 46-375: one discharge to the sanitary sewer and

21) from building 46-376: one discharge to the sanitary sewer and one drop inlet.

Revised EPA Forms 2C are included for permitted outfalls 03A124 and 13S. Recommendation for repiping are provided to permit outfall consolidation to minimize permit maintenance requirements. Floor drain plugging is recommended where potential for discharge of pollutants exists.

A waste stream database has been prepared listing wastewater type and flow rate for each outfall.

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1.0 INTRODUCTION

During February, 1993, Patrick E. Binkley of Santa Fe Engineering (SFE) toured buildings 158, 161, 169, 175, 176, 177, 194, 195, 198, 204, 207, 208, 221, 226, 239, 247, 251, 253, 299, 300, 307, 308, 312, 313, 333, 334, 335, 336, 337, 338, 339, 340, 347, 375, 376 and 402 in TA-46. Figures 1 and 9 are plot plans of the buildings visited. The purpose of this study is to identify building drain piping and to characterize the wastewater flows and sources at the time of the visit. This report will not reflect any subsequent changes in piping or operation. The Wastewater Stream 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 buildings were identified and laid out in schematic form;

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

3. Permit applications for discharges of clean water discharges 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 2 through 8 and 10 through 13) from drawings provided by Los Alamos National Laboratory (LANL) Facilities Engineering Division. The

other buildings were visited to insure that no drains exist in 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 also reviewed. The National Pollutant Discharge System (NPDES) Permit, the 1990 NPDES Permit Application submitted by Los Alamos National Laboratory (LANL) in September, 1990 and the latest Federal Facilities Compliance Agreement (FFCA) between the Department of Energy (DOE) and the Environmental Protections 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. SFE verified drain piping by dye checking and

3. A site visit was performed to verify the SFE drain schematic 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 wastestream characterization.

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 1). 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 is listed in Appendix 1 in Tables 2 through 20 with an abbreviations list in Table 1 and a non-drain recommendation table in Table 21. Appendix 2 contains the waste stream characterization database output, listing wastewater sources, flow rates and periodicity information for each outfall drain. EPA forms were included in Appendix 3. 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 8 and 10 through 13.

3.0 RECOMMENDATIONS FOR BUILDING 46-158

Table 2 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.

3.1 Outfall 46-158-OPN-1

This outfall to the sanitary sewer receives flow from toilets (2), a urinal (1), sink drains (3), lavatories (2), an eye wash and an equipment room floor drain. No changes or permitting are recommended. No EPA forms were prepared.

3.2 Outfalls 46-158-OPN-2, 46-158-OPN-3 and 46-158-OPN-4

These three outfalls to daylight are drains from the fire water system. These outfalls should be included in a Notice of Intent (NOI) to Discharge. No changes are recommended. No EPA forms were prepared.

3.3 Outfall 46-158-OPN-5

This outfall to daylight is a drain from an air compressor. The liquid from this drain should be contained. No permitting is recommended. No EPA forms were prepared.

3.4 Outfall 46-158-OPN-6

This outfall to daylight is a roof storm water drain. No changes or permitting are recommended. No EPA forms were prepared.

3.5 Outfall 46-158-OPN-7

This outfall discharges to permitted outfall 03A124 from building 46-169. Drains contributing to this outfall include two floor drains in the pump room. It is recommended that these drains be repiped to the sanitary sewer. This outfall is included in the revised EPA Form 2C prepared for outfall 46-169-OPN-1 (03A124) contained in Appendix 3.

4.0 RECOMMENDATIONS FOR BUILDING 46-161

Table 3 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.

4.1 Outfall 46-161-OPN-1

This outfall is from a floor drain in the entry way into the laser containment area. The only water that would reach this drain would be storm water. The destination of the flow could not be determined in the snow. The users should verify the destination and report the findings to EM-8. No permitting is recommended. No EPA forms were prepared.

4.2 Outfall 46-161-OPN-2

This outfall to daylight is a drain from the fire water system. This outfall should be included in an NOI. No changes are recommended. No EPA forms were prepared.

5.0 RECOMMENDATIONS FOR BUILDING 46-169

Table 4 is a list of the drains to the outfall 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. This outfall to daylight is permitted as 03A124 and receives flow from a cooling tower and two floor drains located in the cooling pump room in building 158 (see section 3.5). The cooling tower was not in use at the time field work was completed for this report. If there are plans for future use of this cooling tower it is recommended that it be repiped to the sanitary sewer and the permit be deleted. An updated EPA Form 2C has been prepared and is contained in Appendix 3.

6.0 RECOMMENDATIONS FOR BUILDING 46-175

Table 5 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 one building outfall receives flow from sanitary facilities and discharges to the sanitary sewer system. No changes or permitting are recommended. No EPA forms were prepared.

7.0 RECOMMENDATIONS FOR BUILDINGS 46-176, 177, 198, 204, 207, 208, 221, 239, 247, 299, 300, 307, 308, 312, 313, 340 AND 402

These buildings were visited and it was found that they do not have any drains or sources of water. No changes or permitting are recommended. No EPA forms were prepared.

8.0 RECOMMENDATIONS FOR BUILDING 46-194

Table 6 lists the drains to the building outfalls 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.

8.1 Outfall 46-194-OPN-1

This outfall to the sanitary sewer receives flow from toilets (2), a shower, a sink, lavatories (2) and a bathtub. The drain line from this building and from 46-195 is partially plugged where it enters the closest manhole. This debris should be cleaned out. No permitting is recommended. No EPA forms were prepared.

8.2 Outfalls 46-194-OPN-2 and 46-194-OPN-3

These outfalls to daylight are from roof storm water drains. No changes or permitting are recommended. No EPA forms were prepared.

9.0 RECOMMENDATIONS FOR BUILDING 46-195

Table 7 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.

9.1 Outfall 46-195-OPN-1

This outfall to the sanitary sewer receives flow from toilets (2), a shower, a sink, lavatories (2) and a bathtub. The drain line from this building and from 46-194 is partially plugged where it enters the closest manhole. This debris should be cleaned out. No permitting is recommended. No EPA forms were prepared.

9.2 Outfalls 46-195-OPN-2 and 46-195-OPN-3

These two outfalls to atmosphere are sewer vents. No changes or permitting are recommended. No EPA forms were prepared.

9.3 Outfalls 46-195-OPN-4, 46-195-OPN-5, 46-195-OPN-6, 46-195-OPN-7, 46-195-OPN-8 and 46-195-OPN-9

These outfalls to daylight are from roof storm water drains. No changes or permitting are recommended. No EPA forms were prepared.

10.0 RECOMMENDATIONS FOR BUILDING 46-226

Table 8 is a list of the drains to the building outfall 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 only outfall is to the sanitary sewer and receives flow from a toilet and a lavatory. The drains should be verified by the operating group. The water was not on during our visit. No permitting is recommended. No EPA forms were prepared.

11.0 RECOMMENDATIONS FOR BUILDING 46-251

Table 9 is a list of the drains to the building outfall 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 only outfall is to the sanitary sewer and receives flow from a toilet and a lavatory. The drains should be verified by the operating group. The water was not on during our visit. No permitting is recommended. No EPA forms were prepared.

12.0 RECOMMENDATIONS FOR BUILDING 46-253

Building 46-253 has been removed. Originally it was part of the "old" TA-46 sanitary waste treatment system (lagoons) that was permitted as EPA 12S. This treatment system is now the new Sanitary Waste System Consolidation (SWSC) plant at TA-46. It is recommended that this permit be deleted. Table 10 of Appendix 1 lists this recommendation. No EPA forms were prepared.

13.0 RECOMMENDATIONS FOR BUILDING 46-333

This structure is the control building for the new SWSC plant. Overall plant configuration is shown schematically in Figure 9. Table 11 is a list of the drains to the building 46-333 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 46-333-OPN-1

This outfall to daylight is from a hot water heater pressure relief valve (PRV). This outfall should be included in an NOI. No changes are recommended. No EPA forms were prepared.

13.2 Outfalls 46-333-OPN-2, 46-333-OPN-4, 46-333-OPN-5, 46-333-OPN-6, 46-333-OPN-7 and 46-333-OPN-8

These outfalls to daylight are storm water drains. No changes or permitting are recommended. No EPA forms were prepared.

13.3 Outfall 46-333-OPN-3

This outfall to the SWSC plant collection system is from a dish washer (1), floor drains (3), lavatories (2), sink drains (7), a shower, a toilet, a urinal and a water fountain. The destination could not be verified because the discharge enters the SWSC

internal drain system under water and the dye could not be seen. The operating group should verify the destination. It is recommended that the laboratory sinks be posted as receiving sanitary waste only. No permitting is recommended. No EPA forms were prepared.

14.0 RECOMMENDATIONS FOR BUILDING 46-334

This structure houses the "Entrance Works" for the new SWSC plant. Table 12 is a list of the drains to the building outfall and Figure 11 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 only outfall is to the grit box. No changes or permitting are recommended. No EPA forms were prepared.

15.0 RECOMMENDATIONS FOR BUILDING 46-335

This structure is the blower building for the new SWSC plant complex. Table 13 is a list of the drains to the building outfalls and Figure 12 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.

15.1 Outfall 46-335-OPN-1

This outfall is from floor drains in the blower building. As for building 46-333, the destination of the drains to the plant internal drain system could not be verified. The operating group should verify this connection. No permitting is recommended. No EPA forms were prepared.

15.2 Outfalls 46-335-OPN-2, 46-335-OPN-3 and 46-335-OPN-4

These outfalls to daylight are storm water drains. No changes or permitting are recommended. No EPA forms were prepared.

15.3 Outfall 46-335-OPN-5

This outfall to atmosphere is a vent on a diesel engine. No changes or permitting are recommended. No EPA forms were prepared.

16.0 RECOMMENDATIONS FOR BUILDING 46-336

This structure houses the equalization and aeration basins for the new SWSC plant. Table 14 is a list of the drains from this structure. The only drain is to the SWSC plant internal drain system. The operating group should verify this connection. No permitting is recommended. No EPA forms were prepared.

17.0 RECOMMENDATIONS FOR BUILDING 46-337

Table 15 is a list of the drains from this structure (clarifier). The only drain is to the SWSC plant internal drain system. The operating group should verify this connection. No permitting is recommended. No EPA forms were prepared.

18.0 RECOMMENDATIONS FOR BUILDING 46-338

Table 16 is a list of the drains from this structure (clarifier). The only drain is to the SWSC plant internal drain system. The operating group should verify this connection. No permitting is recommended. No EPA forms were prepared.

19.0 RECOMMENDATIONS FOR BUILDING 46-339

This structure is part of the chlorination system for the SWSC plant. Table 17 is a list of the drains to the building outfalls and Figure 13 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.

19.1 Outfall 46-339-OPN-1

This outfall is from floor drains. As for building 46-333, the destination of the drains to the SWSC plant internal drain system could not be verified. The operating group should verify this connection. No permitting is recommended. No EPA forms were prepared.

19.2 Outfalls 46-339-OPN-2 and 46-339-OPN-4

These outfalls to daylight are storm water drains. No changes or permitting are recommended. No EPA forms were prepared.

19.3 Outfall 46-339-OPN-3

This outfall to daylight is from a safety shower. This outfall should be included in an NOI. No changes are recommended. No EPA forms were prepared.

19.4 Outfall 46-339-OPN-5

This outfall to atmosphere is a vent from the dechlorination system. No changes or permitting are recommended. No EPA forms were prepared.

20.0 RECOMMENDATIONS FOR BUILDING 46-347

Table 18 lists the discharge from the chlorination station. This discharge is the SWSC treatment plant effluent. The effluent is presently being piped to the TA-3 treatment plant (01S) for discharge until the permit is secured for this outfall. Future plans call for the water to also be used in the TA-3 Power Plant. An EPA Form 2C has been prepared and is contained in Appendix 3.

21.0 RECOMMENDATIONS FOR BUILDING 46-375

This is a holding pond for the SWSC plant system. Table 19 is a list of the drains from this structure. The only drain is to the SWSC plant internal drain system. The operating group should verify this connection. No permitting is recommended. No EPA forms were prepared.

22.0 RECOMMENDATIONS FOR BUILDING 46-376

These structures are the sludge beds for the SWSC plant. Table 20 is a list of the outfalls. 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.

22.1 Outfall 46-376-OPN-1

This outfall is to the SWSC plant internal drain system. The operating group should verify this connection. No permitting is recommended. No EPA forms were prepared.

22.2 Outfall 46-376-OPN-2

This outfall is from a separate drop inlet to the SWSC plant internal drain system. Storm water flows into the drain system through this inlet. The operating group should verify this connection and plug it if it does go to the SWSC plant internal drain system. An alternate would be to berm the inlet to prevent storm water entry and provide a cover. No permitting is recommended. No EPA forms were prepared.

23.0 CONCLUSION

This document provides the information to characterize buildings 158, 161, 169, 175, 176, 177, 194, 195, 198, 204, 207, 208, 221, 226, 239, 247, 251, 253, 299, 300, 307, 308, 312, 313, 333, 334, 335, 336, 337, 338, 339, 340, 347, 375, 376 and 402 in TA-46. EPA Form 2C's were completed for outfalls 46-247-OPN-1 (13S) and 46-169-OPN-1 (03A124).

Permitting is not recommended for the outfalls, as itemized below:

Areas that do not have any drains:

1. 46-176	2. 46-177	3. 46-198	4. 46-204
5. 46-207	6. 46-208	7. 46-221	8. 46-239
9. 46-247	10. 46-299	11. 46-300	12. 46-307
13. 46-308	14. 46-312	15. 46-313	16. 46-340
17. 46-402			

Discharges from hot water heaters:

1. 46-333-OPN-1

Discharges to the sanitary sewer:

1. 46-158-OPN-1	2. 46-175-OPN-1	3. 46-194-OPN-1
4. 46-195-OPN-1	5. 46-226-OPN-1	6. 46-251-OPN-1
7. 46-333-OPN-3	8. 46-334-OPN-1	9. 46-335-OPN-1
10. 46-336-OPN-1	11. 46-337-OPN-1	12. 46-338-OPN-1
13. 46-339-OPN-1	14. 46-347-OPN-1	15. 46-375-OPN-1
16. 46-376-OPN-1		

Discharges from the fire water system:

1. 46-158-OPN-2	2. 46-158-OPN-3	3. 46-158-OPN-4
4. 46-161-OPN-2		

Vapor vents:

1. 46-195-OPN-2	2. 46-195-OPN-3	3. 46-335-OPN-5
4. 46-339-OPN-5		

Permitted discharges not in use:

1. 46-169-OPN-1 (03A124) 2. 46-253-OPN-1 (12S)

Safety showers:

1. 46-339-OPN-3

Storm water discharges:

1. 46-158-OPN-6	2. 46-161-OPN-1	3. 46-194-OPN-2
4. 46-194-OPN-3	5. 46-195-OPN-4	6. 46-195-OPN-5
7. 46-195-OPN-6	8. 46-195-OPN-7	9. 46-195-OPN-8
10. 46-195-OPN-9	11. 46-333-OPN-2	12. 46-333-OPN-4
13. 46-333-OPN-5	14. 46-333-OPN-6	15. 46-333-OPN-7
16. 46-333-OPN-8	17. 46-335-OPN-2	18. 46-335-OPN-3
19. 46-335-OPN-4	20. 46-339-OPN-2	21. 46-339-OPN-4
22. 46-376-OPN-2		

Air compressor drains:

1. 46-158-OPN-5

The following outfalls have storm water combined with non-storm water discharges, as defined in Form 2D, Appendix 3:

None

Recommended permitting and corrective actions are outlined in Tables 2 through 10 as well as in the above text. Corrective action should be performed as soon as practicable to minimize the chance of unpermitted discharge of pollutants.

TABLE 1:
SUMMARY OF
ABBREVIATIONS

ABBREVIATION	MEANING
BT	Bath Tub
DW	Dish Washer
EW	Eye Wash
FD	Floor Drain
LV	Lavatory
SD	Sink Drain
SH	Shower
TL	Toilet
UR	Urinal
WF	Water Fountain

TABLE 2: TA 46-158 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-158-OPN-1 SANITARY SEWER	1EW1	OFFICE	105	NO CHANGE	NO
	1FD3	EQUIPMENT ROOM	110	NO CHANGE	
	1LV1	REST ROOM	109	NO CHANGE	
	1LV2	REST ROOM	114	NO CHANGE	
	1SD1	LASER LAB	102	NO CHANGE	
	1SD2	KITCHEN	111	NO CHANGE	
	1SD3	JANITOR'S CLOSET	112	NO CHANGE	
	1TL1	REST ROOM	109	NO CHANGE	
	1TL2	REST ROOM	114	NO CHANGE	
	1UR1	REST ROOM	109	NO CHANGE	
46-158-OPN-2	N/A	FIRE WATER	N/A	NOI	NO
46-158-OPN-3	N/A	FIRE WATER	N/A	NOI	NO
46-158-OPN-4	N/A	FIRE WATER	N/A	NOI	NO
46-158-OPN-5	N/A	AIR COMPRESSOR	N/A	CONTAIN	NO
46-158-OPN-6	N/A	ROOF DRAIN	N/A	NO CHANGE	NO
46-158-OPN-7 03A124	1FD1	PUMP ROOM	N/A	REPIPE TO SS	YES
	1FD2	PUMP ROOM	N/A	REPIPE TO SS	

TABLE 3: TA 46-161 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-161-OPN-1	1FD1	STAIRWELL	N/A	VERIFY	NO
46-161-OPN-2	N/A	FIRE WATER	N/A	NOI	NO

TABLE 4: TA 46-169 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-169-OPN-1 03A124	N/A	COOLING TOWER	N/A	REPIPE TO SS	YES

TABLE 5: TA 46-175 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-175-OPN-1	1LV1	REST ROOM	101A	NO CHANGE	NO
SANITARY SEWER	1TL1	REST ROOM	101A	NO CHANGE	

TABLE 6: TA 46-194 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-194-OPN-1 SANITARY	1BT1	REST ROOM	103	NO CHANGE	NO
	1LV1	REST ROOM	107B	NO CHANGE	
	1LV2	REST ROOM	103	NO CHANGE	
	1SD1	KITCHEN	101A	NO CHANGE	
	1SH1	REST ROOM	107B	NO CHANGE	
	1TL1	REST ROOM	107B	NO CHANGE	
	1TL2	REST ROOM	103	NO CHANGE	
46-194-OPN-2	N/A	ROOF	N/A	NO CHANGE	NO
46-194-OPN-3	N/A	ROOF	N/A	NO CHANGE	NO

TABLE 7: TA 46-195 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-195-OPN-1 SANITARY SEWER	1BT1	REST ROOM	106	CLEAN DRAIN AT MANHOLE	NO
	1LV1	REST ROOM	106	NO CHANGE	
	1LV2	REST ROOM	105	NO CHANGE	
	1SD1	KITCHEN	101	NO CHANGE	
	1SH1	REST ROOM	105	NO CHANGE	
	1TL1	REST ROOM	106	NO CHANGE	
	1TL2	REST ROOM	105	NO CHANGE	
46-195-OPN-2	N/A	SEWER VENT	N/A	NO CHANGE	NO
46-195-OPN-3	N/A	SEWER VENT	N/A	NO CHANGE	NO
46-195-OPN-4	N/A	STORM WATER	N/A	NO CHANGE	NO
46-195-OPN-5	N/A	STORM WATER	N/A	NO CHANGE	NO
46-195-OPN-6	N/A	STORM WATER	N/A	NO CHANGE	NO
46-195-OPN-7	N/A	STORM WATER	N/A	NO CHANGE	NO
46-195-OPN-8	N/A	STORM WATER	N/A	NO CHANGE	NO
46-195-OPN-9	N/A	STORM WATER	N/A	NO CHANGE	NO

TABLE 8: TA 46-226 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-226-OPN-1 SANITARY SEWER	1LV1	REST ROOM	N/A	VERIFY	NO
	1TL1	REST ROOM	N/A	VERIFY	

TABLE 9: TA 46-251 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-251-OPN-1 SANITARY SEWER	1LV1	REST ROOM	N/A	VERIFY	NO
	1TL1	REST ROOM	N/A	VERIFY	

TABLE 10: TA 46-253 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-253-OPN-1 12S	N/A	TREATMENT LAGOONS	N/A	REMOVE LAGOONS & DELETE PERMIT	NO

TABLE 11: TA 46-333 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-333-OPN-1	N/A	WATER HEATER	N/A	NOI	NO
46-333-OPN-2	N/A	STORM WATER	N/A	NO CHANGE	NO
46-333-OPN-3 SANITARY SEWER	1DW1	LAB	107	VERIFY	NO
	1FD1	SHOP	112	VERIFY	
	1FD2	EQUIPMENT ROOM	113	VERIFY	
	1FD3	LAB	107	VERIFY	
	1LV1	LOCKER ROOM	111	VERIFY	
	1LV2	REST ROOM	109	VERIFY	
	1SD1	SHOP	112	VERIFY/LABE	
	1SD2	KITCHEN	108	VERIFY	
	1SD3	LAB	107	VERIFY/LABE	
	1SD4	LAB	107	VERIFY/LABE	
	1SD5	LAB	107	VERIFY/LABE	
	1SD6	LAB	107	VERIFY/LABE	
	1SD7	LAB	107	VERIFY/LABE	
	1SH1	LOCKER ROOM	111	VERIFY	
	1TL1	REST ROOM	109	VERIFY	
	1UR1	REST ROOM	109	VERIFY	
	1WF1	HALLWAY	100	VERIFY	
46-333-OPN-4	N/A	STORM WATER	N/A	NO CHANGE	NO
46-333-OPN-5	N/A	STORM WATER	N/A	NO CHANGE	NO
46-333-OPN-6	N/A	STORM WATER	N/A	NO CHANGE	NO
46-333-OPN-7	N/A	STORM WATER	N/A	NO CHANGE	NO
46-333-OPN-8	N/A	STORM WATER	N/A	NO CHANGE	NO

TABLE 12: TA 46-334 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-334-OPN-1 GRIT BOX	1FD1	ENTRANCE WORKS	N/A	NO CHANGE	NO
	1FD2	ENTRANCE WORKS	N/A	NO CHANGE	
	1FD3	ENTRANCE WORKS	N/A	NO CHANGE	

TABLE 13: TA 46-335 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-335-OPN-1 SANITARY	1FD1	BLOWER BLDG	N/A	VERIFY	NO
	1FD2	BLOWER BLDG	N/A	VERIFY	
	1FD3	BLOWER BLDG	N/A	VERIFY	
46-335-OPN-2	N/A	STORM WATER	N/A	NO CHANGE	NO
46-335-OPN-3	N/A	STORM WATER	N/A	NO CHANGE	NO
46-335-OPN-4	N/A	STORM WATER	N/A	NO CHANGE	NO
46-335-OPN-5	N/A	DIESEL ENG VENT	N/A	NO CHANGE	NO

TABLE 14: TA 46-336 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-336-OPN-1 SANITARY SEWER	N/A	EQUALIZATION & AERATION BASINS	N/A	VERIFY	NO

TABLE 15: TA 46-337 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-337-OPN-1 SANITARY SEWER	N/A	NORTH CLARIFIER	N/A	VERIFY	NO

TABLE 16: TA 46-338 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-338-OPN-1 SANITARY SEWER	N/A	SOUTH CLARIFIER	N/A	VERIFY	NO

TABLE 17: TA 46-339 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-339-OPN-1 SANITARY	1FD1	PUMP ROOM	N/A	VERIFY	NO
	1FD2	PUMP ROOM	N/A	VERIFY	
	1FD3	DECHLORINATION ROOM	N/A	VERIFY	
	1FD4	CHLORINATION ROOM	N/A	VERIFY	
	1FD5	PUMP ROOM	N/A	VERIFY	
	1FD6	PUMP ROOM	N/A	VERIFY	
46-339-OPN-2	N/A	STORM WATER	N/A	NO CHANGE	NO
46-339-OPN-3	N/A	SAFETY SHOWER	N/A	NOI	NO
46-339-OPN-4	N/A	STORM WATER	N/A	NO CHANGE	NO
46-339-OPN-5	N/A	VAPOR VENT	N/A	NO CHANGE	NO

TABLE 18: TA 46-347 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-347-OPN-1 13S	N/A	CHLORINATION STATION	N/A	VERIFY	YES

TABLE 19: TA 46-375 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-375-OPN-1 SANITARY SEWER	N/A	HOLDING POND	N/A	VERIFY	NO

TABLE 20: TA 46-376 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
46-376-OPN-1 SANITARY SEWER	N/A	SLUDGE DRYING BEDS	N/A	VERIFY	NO
46-376-OPN-2 SANITARY	N/A	DROP INLET	N/A	PLUG/BERM	NO

TABLE 21

NON DRAIN RECOMMENDATIONS

TECHNICAL AREA	BUILDING NUMBER	ROOM OR LOCATION	RECOMMENDATION
46	158	EXT	CLEAN/REPAIR MANHOLE
46	169	N/A	DELETE PERMIT 03A124
46	194	EXT	CLEAN MANHOLE
46	195	EXT	CLEAN MANHOLE
46	253	LAGOONS	DELETE PERMIT 03A124

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
46	158	46-158-OPN-1	13S/SWSC	1EW1	105	OFFICE			NO FLOW	No	EYE WASH
46	158	46-158-OPN-1	13S/SWSC	1FD3	110	EQUIPMENT ROOM			NO FLOW	No	BACK FLOW PREVENTER
46	158	46-158-OPN-1	13S/SWSC	1FD3	110	EQUIPMENT ROOM			NO FLOW	No	HOT WATER HEATER
46	158	46-158-OPN-1	13S/SWSC	1LV1	109	REST ROOM			NO FLOW	No	HAND WASHINGS
46	158	46-158-OPN-1	13S/SWSC	1LV2	114	REST ROOM			NO FLOW	No	HAND WASHINGS
46	158	46-158-OPN-1	13S/SWSC	1SD1	102	LASER LAB			NO FLOW	No	HAND WASHINGS
46	158	46-158-OPN-1	13S/SWSC	1SD2	111	KITCHEN			NO FLOW	No	DISH WASHINGS
46	158	46-158-OPN-1	13S/SWSC	1SD3	112	JANITOR'S CLOSET			NO FLOW	No	MOP WATER
46	158	46-158-OPN-1	13S/SWSC	1TL1	109	REST ROOM			NO FLOW	No	SANITARY WASTE
46	158	46-158-OPN-1	13S/SWSC	1TL2	114	REST ROOM			NO FLOW	No	SANITARY WASTE
46	158	46-158-OPN-1	13S/SWSC	1UR1	109	REST ROOM			NO FLOW	No	SANITARY WASTE
46	158	46-158-OPN-2	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN			NO FLOW	No	FIRE WATER
46	158	46-158-OPN-3	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN			NO FLOW	No	FIRE WATER
46	158	46-158-OPN-4	DAYLIGHT	N/A	N/A	FIRE WATER DRAIN			NO FLOW	No	FIRE WATER
46	158	46-158-OPN-5	DAYLIGHT	N/A	N/A	AIR COMPRESSOR DRAIN			NO FLOW	No	WATER & OIL
46	158	46-158-OPN-6	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	161	46-161-OPN-1	UNKNOWN	1FD1	N/A	LASER VAULT			MOSTLY SUMMER	Yes	STORM WATER
46	161	46-161-OPN-2	DAYLIGHT	N/A	N/A	LASER VAULT			NO FLOW	No	FIRE WATER
46	169	46-158-OPN-7	03A124	1FD1	N/A	EQUIPMENT ROOM IN 46-1			NO FLOW	No	TREATED COOLING WATER
46	169	46-158-OPN-7	03A124	1FD2	N/A	EQUIPMENT ROOM IN 46-1			NO FLOW	No	TREATED COOLING WATER
46	169	46-169-OPN-1	03A124	N/A	N/A	PERMITTED OUTFALL			NO FLOW	No	COOLING TOWER
46	169	46-169-OPN-1	03A124	N/A	N/A	COOLING TOWER			NO FLOW	No	TREATED COOLING WATER
46	175	46-175-OPN-1	13S/SWSC	1LV1	101A	REST ROOM			NO FLOW	No	HAND WASHINGS
46	175	46-175-OPN-1	13S/SWSC	1TL1	101A	REST ROOM			NO FLOW	No	SANITARY WASTE
46	176	46-176	ND	N/A	N/A	OFFICE TRAILER			NO FLOW	No	NO SOURCES
46	176	46-177	ND	N/A	N/A	OFFICE TRAILER			NO FLOW	No	NO SOURCES
46	194	46-194-OPN-1	13S/SWSC	1BT1	103A	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE
46	194	46-194-OPN-1	13S/SWSC	1LV1	107B	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE
46	194	46-194-OPN-1	13S/SWSC	1LV2	103	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE
46	194	46-194-OPN-1	13S/SWSC	1SD1	101A	KITCHEN			5 DAYS PER WEEK	No	SANITARY WASTE
46	194	46-194-OPN-1	13S/SWSC	1SH1	107B	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE
46	194	46-194-OPN-1	13S/SWSC	1TL1	107B	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE
46	194	46-194-OPN-1	13S/SWSC	1TL2	103	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
46	194	46-194-OPN-2	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	No	STORM WATER
46	194	46-194-OPN-3	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	No	STORM WATER
46	195	46-195-OPN-1	13S/SWSC	1BT1	106	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE
46	195	46-195-OPN-1	13S/SWSC	1LV1	106	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE
46	195	46-195-OPN-1	13S/SWSC	1LV2	105	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE
46	195	46-195-OPN-1	13S/SWSC	1SD1	101	KITCHEN			5 DAYS PER WEEK	No	SANITARY WASTE
46	195	46-195-OPN-1	13S/SWSC	1SH1	105	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE
46	195	46-195-OPN-1	13S/SWSC	1TL1	106	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE
46	195	46-195-OPN-1	13S/SWSC	1TL2	105	REST ROOM			5 DAYS PER WEEK	No	SANITARY WASTE
46	195	46-195-OPN-2	TMOSPHER	N/A	N/A	VAPOR VENT			NO LIQUIDS	No	SEWER VENT
46	195	46-195-OPN-3	TMOSPHER	N/A	N/A	VAPOR VENT			NO LIQUIDS	No	SEWER VENT
46	195	46-195-OPN-4	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	195	46-195-OPN-5	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	195	46-195-OPN-6	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	195	46-195-OPN-7	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	195	46-195-OPN-8	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	195	46-195-OPN-9	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	198	46-198	ND	N/A	N/A	OFFICE TRAILER			NO FLOW	No	NO SOURCES
46	204	46-204	ND	N/A	N/A	TRANSPORTABLE			NO FLOW	No	NO SOURCES
46	207	46-207	ND	N/A	N/A	OFFICE TRAILER			NO FLOW	No	NO SOURCES
46	208	46-208	ND	N/A	N/A	LAB			NO FLOW	No	NO SOURCES
46	221	46-221	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NO SOURCES
46	226	46-226-OPN-1	13S/SWSC	1LV1	N/A	REST ROOM			NO FLOW	No	SANITARY WASTE
46	226	46-226-OPN-1	13S/SWSC	1TL1	N/A	REST ROOM			NO FLOW	No	SANITARY WASTE
46	239	46-239	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NO SOURCES
46	247	46-247	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NO SOURCES
46	251	46-251-OPN-1	13S/SWSC	1LV1	N/A	REST ROOM			NO FLOW	No	SANITARY WASTE
46	251	46-251-OPN-1	13S/SWSC	1TL1	N/A	REST ROOM			NO FLOW	No	SANITARY WASTE
46	253	46-253-OPN-1	12S	N/A	N/A	TREATMENT LAGOONS			NO FLOW	No	SANITARY WASTE
46	299	46-299	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NO SOURCES
46	300	46-300	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NO SOURCES
46	307	46-307	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NO SOURCES
46	308	46-308	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NO SOURCES

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
46	312	46-312	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NO SOURCES
46	313	46-313	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NO SOURCES
46	333	46-333-OPN-1	DAYLIGHT	N/A	N/A	WATER HEATER			FLOW IS NIL	No	POTABLE WATER
46	333	46-333-OPN-2	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	333	46-333-OPN-3	13S/SWSC	1DW1	107	LAB			7 DAYS PER WEEK	No	DISH WASHING
46	333	46-333-OPN-3	13S/SWSC	1FD1	112	SHOP			7 DAYS PER WEEK	No	NO SOURCES
46	333	46-333-OPN-3	13S/SWSC	1FD2	113	EQUIPMENT ROOM			FLOW IS NIL	No	BACK FLOW PREVENTER
46	333	46-333-OPN-3	13S/SWSC	1FD2	113	EQUIPMENT ROOM			FLOW IS NIL	No	HOT WATER HEATER
46	333	46-333-OPN-3	13S/SWSC	1FD3	107	LAB			7 DAYS PER WEEK	No	FLOOR WASHINGS
46	333	46-333-OPN-3	13S/SWSC	1LV1	111	LOCKER ROOM			7 DAYS PER WEEK	No	SANITARY WASTE
46	333	46-333-OPN-3	13S/SWSC	1LV2	111	REST ROOM			7 DAYS PER WEEK	No	SANITARY WASTE
46	333	46-333-OPN-3	13S/SWSC	1SD1	112	SHOP			7 DAYS PER WEEK	No	HAND WASHINGS
46	333	46-333-OPN-3	13S/SWSC	1SD2	108	KITCHEN			7 DAYS PER WEEK	No	SANITARY WASTE
46	333	46-333-OPN-3	13S/SWSC	1SD3	107	LAB			7 DAYS PER WEEK	No	WASHINGS NO CHEMICALS
46	333	46-333-OPN-3	13S/SWSC	1SD4	107	LAB			7 DAYS PER WEEK	No	WASHINGS NO CHEMICALS
46	333	46-333-OPN-3	13S/SWSC	1SD5	107	LAB			7 DAYS PER WEEK	No	WASHINGS NO CHEMICALS
46	333	46-333-OPN-3	13S/SWSC	1SD6	107	LAB			7 DAYS PER WEEK	No	WASHINGS NO CHEMICALS
46	333	46-333-OPN-3	13S/SWSC	1SD7	107	LAB			7 DAYS PER WEEK	No	WASHINGS NO CHEMICALS
46	333	46-333-OPN-3	13S/SWSC	1SH1	111	LOCKER ROOM			7 DAYS PER WEEK	No	SANITARY WASTE
46	333	46-333-OPN-3	13S/SWSC	1TL1	109	REST ROOM			7 DAYS PER WEEK	No	SANITARY WASTE
46	333	46-333-OPN-3	13S/SWSC	1UR1	109	REST ROOM			7 DAYS PER WEEK	No	SANITARY WASTE
46	333	46-333-OPN-3	13S/SWSC	1WF1	100	HALLWAY			7 DAYS PER WEEK	No	DRINKING WATER
46	333	46-333-OPN-4	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	333	46-333-OPN-5	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	333	46-333-OPN-6	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	333	46-333-OPN-7	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	333	46-333-OPN-8	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	334	46-334-OPN-1	GRIT BIN	1FD1	N/A	ENTRANCE WORKS			7 DAYS PER WEEK	No	GRIT
46	334	46-334-OPN-1	GRIT BIN	1FD2	N/A	ENTRANCE WORKS			7 DAYS PER WEEK	No	GRIT
46	334	46-334-OPN-1	GRIT BIN	1FD3	N/A	ENTRANCE WORKS			7 DAYS PER WEEK	No	GRIT
46	335	46-335-OPN-1	UNKNOWN	1FD1	N/A	BLOWER BUILDING			7 DAYS PER WEEK	No	FLOOR WASHINGS
46	335	46-335-OPN-1	UNKNOWN	1FD2	N/A	BLOWER BUILDING			7 DAYS PER WEEK	No	FLOOR WASHINGS
46	335	46-335-OPN-1	UNKNOWN	1FD3	N/A	BLOWER BUILDING			7 DAYS PER WEEK	No	FLOOR WASHINGS

REPORT # 68

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
46	335	46-335-OPN-2	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	335	46-335-OPN-3	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	335	46-335-OPN-4	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	335	46-335-OPN-5	TMOSPHER	N/A	N/A	BLOWER BUILDING			NO LIQUID	No	VAPOR VENT
46	336	46-336-OPN-1	13S/SWSC	N/A	N/A	EQUALIZATION & AERATIO			7 DAYS PER WEEK	No	SANITARY WASTE
46	337	46-337-OPN-1	13S/SWSC	N/A	N/A	NORTH CLARIFIER			7 DAYS PER WEEK	No	SANITARY WASTE
46	338	46-338-OPN-1	13S/SWSC	N/A	N/A	SOUTH CLARIFIER			7 DAYS PER WEEK	No	SANITARY WASTE
46	339	46-339-OPN-1	13S/SWSC	1FD1	N/A	PUMP ROOM			7 DAYS PER WEEK	No	SANITARY WASTE
46	339	46-339-OPN-1	13S/SWSC	1FD2	N/A	PUMP ROOM			7 DAYS PER WEEK	No	SANITARY WASTE
46	339	46-339-OPN-1	13S/SWSC	1FD3	N/A	DECHLORINAION ROOM			7 DAYS PER WEEK	No	SANITARY WASTE
46	339	46-339-OPN-1	13S/SWSC	1FD4	N/A	CHLORINATION ROOM			7 DAYS PER WEEK	No	SANITARY WASTE
46	339	46-339-OPN-1	13S/SWSC	1FD5	N/A	PUMP ROOM			7 DAYS PER WEEK	No	SANITARY WASTE
46	339	46-339-OPN-1	13S/SWSC	1FD6	N/A	PUMP ROOM			7 DAYS PER WEEK	No	SANITARY WASTE
46	339	46-339-OPN-2	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	No	STORM WATER
46	339	46-339-OPN-3	DAYLIGHT	N/A	N/A	SAFETY SHOWER			DURING EMERGENCIE	No	POTABLE WATER
46	339	46-339-OPN-4	DAYLIGHT	N/A	N/A	ROOF			MOSTLY SUMMER	Yes	STORM WATER
46	339	46-339-OPN-5	TMOSPHER	N/A	N/A	CHLORINATION BUILDING			NO LIQUIDS	No	VAPOR VENT
46	340	46-340	ND	N/A	N/A	CHLORINE SHELTER			NO FLOW	No	NO SOURCES
46	347	46-347-OPN-1	13S	N/A	N/A	CHLORINATION STATION			7 DAYS PER WEEK	No	SANITARY WASTE
46	375	46-375-OPN-1	13S/SWSC	N/A	N/A	HOLDING POND			7 DAYS PER WEEK	No	SANITARY WASTE
46	376	46-376-OPN-1	13S/SWSC	N/A	N/A	SLUDGE DRYING BEDS			7 DAYS PER WEEK	No	SANITARY WASTE
46	376	46-376-OPN-2	13S/SWSC	N/A	N/A	DROP INLET			7 DAYS PER WEEK	No	STORM WATER
46	402	46-402	ND	N/A	N/A	FLAMMABLE STORAGE			NO FLOW	No	NO SOURCES

Please print or type in the unshaded areas only.

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

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

FORM 2C NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE 1. DEG.	2. MIN.	3. SEC.	C. LONGITUDE 1. DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
13S	35	51	7	106	16	27	Tributary to Canada del Buey, an ephemeral tributary to the Rio Grande

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. 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 B. 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.

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

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW a. OPERATION (list)	b. AVERAGE FLOW (include units)	3. TREATMENT a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
13S	Sewage treatment plant	0.224 MGD	Activated sludge plant	1M	1U
				2F	2E
				3A	3D
				4C	5E
				5H	5P

OFFICIAL USE ONLY *(effluent guidelines sub-categories)*

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ YES *(complete the following table)* ☒ NO *(go to Section III)*

1. OUTFALL NUMBER *(list)*	2. OPERATION(s) CONTRIBUTING FLOW *(list)*	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK *(specify average)*	b. MONTHS PER YEAR *(specify average)*	a. FLOW RATE *(in mgd)*		b. TOTAL VOLUME *(specify with units)*		c. DURATION *(in days)*
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
N/A								

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES *(complete Item III-B)* ☒ NO *(go to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

☐ YES *(complete Item III-C)* ☒ NO *(go to Section IV)*

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS *(list outfall numbers)*
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	
N/A			

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☒ YES *(complete the following table)* ☐ NO *(go to Item IV-B)*

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED
FFCA	1	13S	Sanitary Waste Water Consolidation		8/92

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs *(or other environmental projects which may affect your discharges)* you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

 CONTINUE ON PAGE 3

CONTINUED FROM PAGE 2

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V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Analytical Data	are Attached		

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (list all such pollutants below) ☒ NO (go to Item VI-B)

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES *(identify the test(s) and describe their purposes below)* ☒ NO *(go to Section VIII)*

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

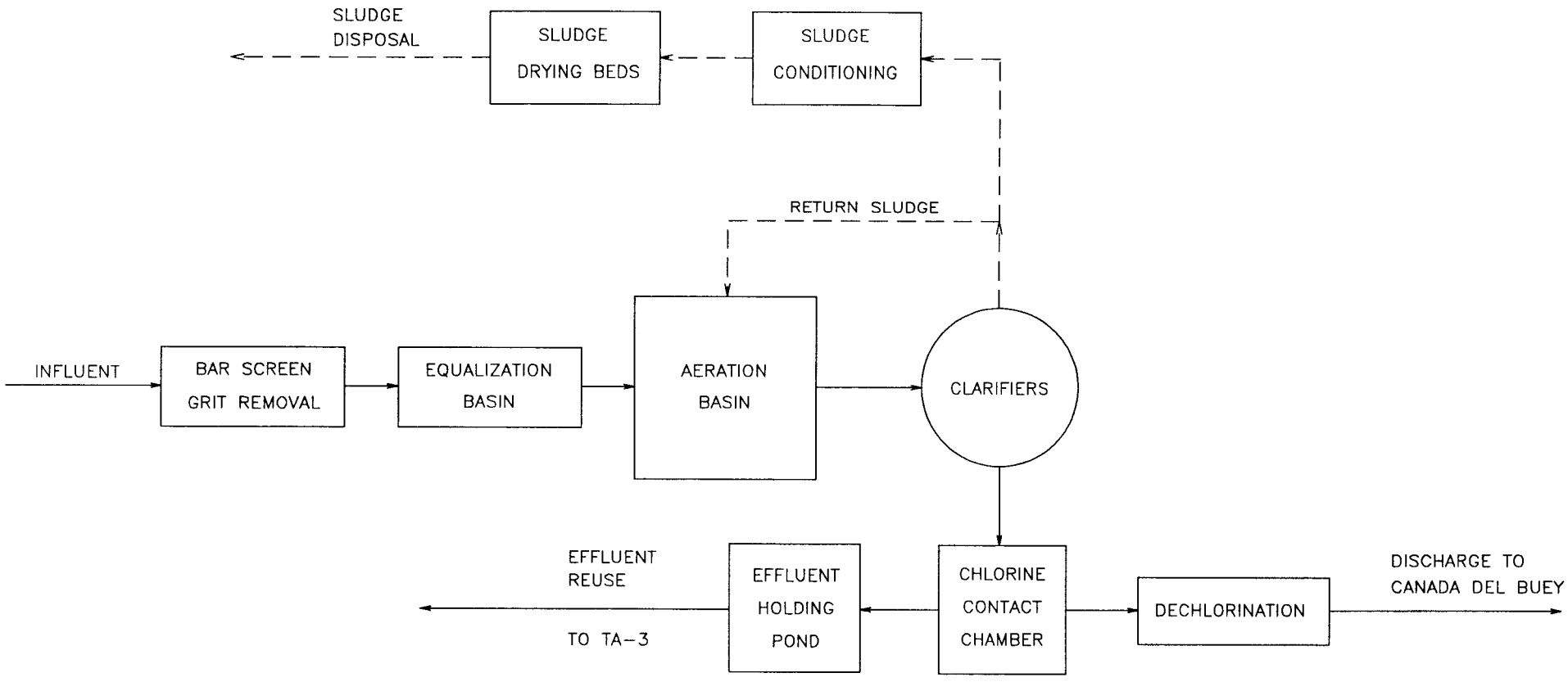
☐ YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☒ NO *(go to Section IX)*

A. NAME	B. ADDRESS	C. TELEPHONE *(area code & no.)*	D. POLLUTANTS ANALYZED *(list)*

IX. 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 & OFFICIAL TITLE *(type or print)*	B. PHONE NO. *(area code & 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



SANITARY WASTEWATER SYSTEMS CONSOLIDATION, TA-46

LOS ALAMOS NATIONAL LABORATORY

NOTE: THE ANALYTICAL DATA CONTAINED HEREIN WERE OBTAINED FROM SAMPLING OF THE LABORATORY'S EXISTING 01S OUTFALL.

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. 13S

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)	16.4	21.0						mg/l	kg/d			
b. Chemical Oxygen Demand (COD)	2,110.	2,700.3						mg/l	kg/d			
c. Total Organic Carbon (TOC)	21.3	27.3						mg/l	kg/d			
d. Total Suspended Solids (TSS)	29.0	37.1						mg/l	kg/d			
e. Ammonia (as N)	11.9	15.229						mg/l	kg/d			
f. Flow	VALUE 338110		VALUE		VALUE			gal/day		VALUE		
g. Temperature (winter)	VALUE 16.3		VALUE		VALUE			°C		VALUE		
h. Temperature (summer)	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 6.2	MAXIMUM 7.9	MINIMUM 7.0	MAXIMUM 7.9			4 / 36	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	< 639.9						mg/l	g/d			
b. Chlorine, Total Residual		X	0.0	0.0			0.0	0.0		mg/l	mg/d			
c. Color	X		68							units				
d. Fecal Coliform	X		3.66							CFU/100 mL				
e. Fluoride (16984-48-8)	X		0.63	806.2			0.63	806.2		mg/l	g/d			
f. Nitrate-Nitrite (as N)	X		28.2	36.1						mg/l	kg/d			

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. ACHIEVED PRESENT	b. ACHIEVED 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
g. Nitrogen, Total Organic (as N)	X		13.1	16.8						mg/L	kg/d			
h. Oil and Grease	X		18.7	23.9						mg/L	kg/d			
i. Phosphorus (as P), Total (7723-14-0)	X		12	15.4						mg/L	kg/d			
j. Radioactivity														
(1) Alpha, Total	X		5	6.4						pCi/L	uCi/d			
(2) Beta, Total	X		19	24.3						pCi/L	uCi/d			
(3) Radium, Total		X												
(4) Radium 226, Total	X		0.18	230.4						pCi/L	nCi/d			
k. Sulfate (as SO_4) (14808-79-8)	X		34	43.5						mg/L	kg/d			
l. Sulfide (as S)	X		0.069	88.3						mg/L	g/d			
m. Sulfite (as SO_3) (14265-45-3)		X												
n. Surfactants	X		0.50	639.9						mg/L	g/d			
o. Aluminum, Total (7429-90-5)	X		0.73	934.2						mg/L	g/d			
p. Barium, Total (7440-39-3)	X		0.07	89.6						mg/L	g/d			
q. Boron, Total (7440-42-8)	X		0.17	217.6						mg/L	g/d			
r. Cobalt, Total (7440-48-4)		X	< 0.1	< 128.0						mg/L	g/d			
s. Iron, Total (7439-89-6)	X		3.1	4.0						mg/L	kg/d			
t. Magnesium, Total (7439-95-4)	X		3.8	4.9						mg/l	kg/d			
u. Molybdenum, Total (7439-98-7)		X	< 0.02	< 25.6						mg/L	g/d			
v. Manganese, Total (7439-96-5)	X		0.06	76.8						mg/L	g/d			
w. Tin, Total (7440-31-5)		X	< 0.050	< 64.0						mg/L	g/d			
x. Titanium, Total (7440-32-6)		X	< 0.004	< 5.1						mg/L	g/d			

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	13S

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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	< 0.0005	< 0.6						mg/L	g/d			
2M. Arsenic, Total (7440-38-2)		X		0.0074	9.5						mg/L	g/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.001	< 1.3						mg/L	g/d			
4M. Cadmium, Total (7440-43-9)			X	< 0.010	< 12.8						mg/L	g/d			
5M. Chromium, Total (7440-47-3)		X		0.51	652.7						mg/L	g/d			
6M. Copper, Total (7440-50-8)		X		0.3	383.9						mg/L	g/d			
7M. Lead, Total (7439-92-1)			X	< 0.050	< 64.0						mg/L	g/d			
8M. Mercury, Total (7439-97-6)		X		0.0017	2.2						mg/L	g/d			
9M. Nickel, Total (7440-02-0)		X		0.02	25.6						mg/L	g/d			
10M. Selenium, Total (7782-49-2)		X		0.0018	2.3						mg/L	g/d			
11M. Silver, Total (7440-22-4)		X		0.250	319.9						mg/L	g/d			
12M. Thallium, Total (7440-28-0)			X	< 0.4	< 511.9						mg/L	g/d			
13M. Zinc, Total (7440-66-6)		X		0.28	358.3						mg/L	g/d			
14M. Cyanide, Total (57-12-5)		X		0.3	383.9						mg/L	g/d			
15M. Phenols, Total		X		0.041	52.5						mg/L	g/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	< 6.4						mg/L	g/d			
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< 0.005	< 6.4						mg/L	g/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 6.4						mg/L	g/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 6.4						mg/L	g/d			
8V. Chlorodibromomethane (124-48-1)			X	< 0.005	< 6.4						mg/L	g/d			
9V. Chloroethane (75-00-3)			X	< 0.010	< 12.8						mg/L	g/d			
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< 0.005	< 6.4						mg/L	g/d			
12V. Dichlorobromomethane (75-27-4)			X	< 0.005	< 6.4						mg/L	g/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X	< 0.005	< 6.4						mg/L	g/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< 0.005	< 6.4						mg/L	g/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< 0.005	< 6.4						mg/L	g/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< 0.005	< 6.4						mg/L	g/d			
18V. 1,3-Dichloropropylene (542-75-6)			X	<											
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 6.4						mg/L	g/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 12.8						mg/L	g/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 12.8						mg/L	g/d			

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OUTFALL NUMBER: 13S

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 – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 6.4						mg/l	g/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< 0.005	< 6.4						mg/l	g/d			
24V. Tetrachloroethylene (127-18-4)			X	< 0.005	< 6.4						mg/l	g/d			
25V. Toluene (108-88-3)			X	< 0.005	< 6.4						mg/l	g/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< 0.005	< 6.4						mg/l	g/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< 0.005	< 6.4						mg/l	g/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< 0.005	< 6.4						mg/l	g/d			
29V. Trichloroethylene (79-01-6)			X	< 0.005	< 6.4						mg/l	g/d			
30V. Trichlorofluoromethane (75-69-4)			X	< 0.005	< 6.4						mg/l	g/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 12.8						mg/l	g/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	< 0.010	< 12.8						mg/l	g/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< 0.010	< 12.8						mg/l	g/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< 0.010	< 12.8						mg/l	g/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	< 0.010	< 12.8						mg/l	g/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< 0.010	< 12.8						mg/l	g/d			
6A. 2-Nitrophenol (88-75-5)			X	< 0.010	< 12.8						mg/l	g/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 12.8						mg/l	g/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< 0.010	< 12.8						mg/l	g/d			
9A. Pentachlorophenol (87-86-5)			X	< 0.010	< 12.8						mg/l	g/d			
10A. Phenol (108-95-2)			X	< 0.010	< 12.8						mg/l	g/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< 0.010	< 12.8						mg/l	g/d			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

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 – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	< 0.010	< 12.8						mg/l	g/d			
2B. Acenaphtylene (208-96-8)			X	< 0.010	< 12.8						mg/l	g/d			
3B. Anthracene (120-12-7)			X	< 0.010	< 12.8						mg/l	g/d			
4B. Benzidine (92-87-5)			X	< 0.010	< 12.8						mg/l	g/d			
5B. Benzo *(a)* Anthracene (56-55-3)			X	< 0.010	< 12.8						mg/l	g/d			
6B. Benzo *(a)* Pyrene (50-32-8)			X	< 0.010	< 12.8						mg/l	g/d			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	< 0.010	< 12.8						mg/l	g/d			
8B. Benzo *(ghi)* Perylene (191-24-2)			X	< 0.010	< 12.8						mg/l	g/d			
9B. Benzo *(k)* Fluoranthene (207-08-9)			X	< 0.010	< 12.8						mg/l	g/d			
10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1)			X	< 0.010	< 12.8						mg/l	g/d			
11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4)			X	< 0.010	< 12.8						mg/l	g/d			
12B. Bis *(2-Chloroiso-propyl)* Ether (102-60-1)			X	< 0.010	< 12.8						mg/l	g/d			
13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7)			X	< 0.010	< 12.8						mg/l	g/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	< 0.010	< 12.8						mg/l	g/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< 0.010	< 12.8						mg/l	g/d			
16B. 2-Chloro-naphthalene (91-58-7)			X	< 0.010	< 12.8						mg/l	g/d			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	< 0.010	< 12.8						mg/l	g/d			
18B. Chrysene (218-01-9)			X	< 0.010	< 12.8						mg/l	g/d			
19B. Dibenzo *(a,h)* Anthracene (53-70-3)			X	< 0.010	< 12.8						mg/l	g/d			
20B. 1,2-Dichloro-benzene (95-50-1)			X	< 0.010	< 12.8						mg/l	g/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< 0.010	< 12.8						mg/l	g/d			

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CONTINUED FROM PAGE V-6

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	13S

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 – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< 0.010	< 12.8						mg/l	g/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 12.8						mg/l	g/d			
24B. Diethyl Phthalate (84-66-2)			X	< 0.010	< 12.8						mg/l	g/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 12.8						mg/l	g/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 12.8						mg/l	g/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 12.8						mg/l	g/d			
28B. 2,6-Dinitrotoluene (606-20-2)			X	< 0.010	< 12.8						mg/l	g/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 12.8						mg/l	g/d			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X	< 0.010	< 12.8						mg/l	g/d			
31B. Fluoranthene (206-44-0)			X	< 0.010	< 12.8						mg/l	g/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 12.8						mg/l	g/d			
33B. Hexachlorobenzene (118-74-1)			X	< 0.010	< 12.8						mg/l	g/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 12.8						mg/l	g/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 12.8						mg/l	g/d			
36B. Hexachloroethane (67-72-1)			X	< 0.010	< 12.8						mg/l	g/d			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	< 0.010	< 12.8						mg/l	g/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 12.8						mg/l	g/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 12.8						mg/l	g/d			
40B. Nitrobenzene (98-95-3)			X	< 0.010	< 12.8						mg/l	g/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< 0.010	< 12.8						mg/l	g/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< 0.010	< 12.8						mg/l	g/d			

CONTINUED FROM THE FRONT

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 — BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< 0.010	< 12.8						mg/l	g/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 12.8						mg/l	g/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 12.8						mg/l	g/d			
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	< 0.010	< 12.8						mg/l	g/d			
GC/MS FRACTION — PESTICIDES															
1P. Aldrin (309-00-2)			X	< 0.06	< 76.8						ug/l	mg/d			
2P. α-BHC (319-84-6)			X	< 0.04	< 51.2						ug/l	mg/d			
3P. β-BHC (319-85-7)			X	< 0.1	< 128.0						ug/l	mg/d			
4P. γ-BHC (58-89-9)			X	< 0.03	< 38.4						ug/l	mg/d			
5P. δ-BHC (319-86-8)			X	< 0.12	< 153.6						ug/l	mg/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 319.9						ug/l	mg/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 76.8						ug/l	mg/d			
8P. 4,4'-DDE (72-55-9)			X	< 0.04	< 51.2						ug/l	mg/d			
9P. 4,4'-DDD (72-54-8)			X	< 0.04	< 51.2						ug/l	mg/d			
10P. Dieldrin (60-57-1)			X	< 0.04	< 51.2						ug/l	mg/d			
11P. α-Endosulfan (115-29-7)			X	< 0.05	< 64.0						ug/l	mg/d			
12P. β-Endosulfan (115-29-7)			X	< 0.08	< 102.4						ug/l	mg/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< 0.09	< 115.2						ug/l	mg/d			
14P. Endrin (72-20-8)			X	< 0.03	< 38.4						ug/l	mg/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.31	< 396.7						ug/l	mg/d			
16P. Heptachlor (76-44-8)			X	< 0.03	< 38.4						ug/l	mg/d			

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CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item I of Form 1)	OUTFALL NUMBER
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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	< 51.2						ug/l	mg/d			
18P. PCB-1242 (53469-21-9)			X	< 0.71	< 908.6						ug/l	mg/d			
19P. PCB-1254 (11097-69-1)			X	< 0.71	< 908.6						ug/l	mg/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	< 0.71	< 908.6						ug/l	mg/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 3.2						ug/l	g/d			

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
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FORM 2C NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
03A124	35	51	8	106	16	46	Tributary to Canada del Buey, an ephemeral tributary to the Rio Grande

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. 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 B. 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.

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

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
03A124	TA-46-169 Cooling Tower	0.02 GPM	None		

OFFICIAL USE ONLY *(effluent guidelines sub-categories)*

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☒ YES *(complete the following table)* ☐ NO *(go to Section III)*

1. OUTFALL NUMBER *(list)*	2. OPERATION(s) CONTRIBUTING FLOW *(list)*	3. FREQUENCY a. DAYS PER WEEK *(specify average)*	b. MONTHS PER YEAR *(specify average)*	4. FLOW a. FLOW RATE *(in mgd)* 1. LONG TERM AVERAGE	2. MAXIMUM DAILY	b. TOTAL VOLUME *(specify with units)* 1. LONG TERM AVERAGE	2. MAXIMUM DAILY	c. DURATION *(in days)*
03A124	Cooling tower blowdown	7	6	0.000014	0.000028	14 GPD	28 GPD	182 d/yr

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES *(complete Item III-B)* ☒ NO *(to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

☐ YES *(complete Item III-C)* ☐ NO *(go to Section IV)*

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	2. AFFECTED OUTFALLS *(list outfall numbers)*

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES *(complete the following table)* ☐ NO *(go to Item IV-B)*

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS a. NO.	b. SOURCE OF DISCHARGE	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE a. REQUIRED	b. PROJECTED
EPA Docket No. VI-92-1306		All	Complete Waste Stream Characterization surveys and implement corrective actions.	7/31/93	FY96

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs *(or other environmental projects which may affect your discharges)* you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

 CONTINUE ON PAGE 3

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V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
see data sheet			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (list all such pollutants below) ☒ NO (go to Item VI-B)

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES *(identify the test(s) and describe their purposes below)* ☒ NO *(go to Section VIII)*

N/A

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☐ YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☒ NO *(go to Section IX)*

A. NAME	B. ADDRESS	C. TELEPHONE *(area code & no.)*	D. POLLUTANTS ANALYZED *(list)*

IX. 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 & OFFICIAL TITLE *(type or print)*	B. PHONE NO. *(area code & no.)*
JERRY L. BELLOWS, AREA MANAGER, DOE	505-667-5105
ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	505-667-9390
C. SIGNATURE	D. DATE SIGNED

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. 03A124

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)*	42.0	4.5						mg/l	g/d			
c. Total Organic Carbon *(TOC)*	7.4	0.8						mg/l	g/d			
d. Total Suspended Solids *(TSS)*	7.0	0.7						mg/l	g/d			
e. Ammonia *(as N)*	< .01	< 1.060						mg/l	mg/d			
f. Flow	VALUE 28		VALUE		VALUE			gal/day		VALUE		
g. Temperature *(winter)*	VALUE 36.9 C		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 6.8	MAXIMUM 8.8	MINIMUM 6.0	MAXIMUM 9.0				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		3.24	0.3						mg/l	g/d			
b. Chlorine, Total Residual		X	0.0	0.0						mg/l	mg/d			
c. Color	X		10							units				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		0.52	55.1						mg/l	mg/d			
f. Nitrate-Nitrite *(as N)*	X		1.13	0.1						mg/l	g/d			

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

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
g. Nitrogen, Total Organic (as N)	X		2.3	0.2						mg/l	g/d			
h. Oil and Grease		X	< 1.2	< 0.1						mg/l	g/d			
i. Phosphorus (as P), Total (7723-14-0)	X		.306	32.4						mg/l	mg/d			
j. Radioactivity														
(1) Alpha, Total	X		14	1.5						pCi/l	nCi/d			
(2) Beta, Total	X		6.6	0.7						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		0.07	7.4						pCi/l	nCi/d			
k. Sulfate (as SO_4) (14808-79-8)	X		143	15.2						mg/l	g/d			
l. Sulfide (as S)	X		70.2	7.4						mg/l	g/d			
m. Sulfite (as SO_3) (14265-45-3)	X		18.8	2.0						mg/l	g/d			
n. Surfactants	X		0.11	11.7						mg/l	mg/d			
o. Aluminum, Total (7429-90-5)	X		0.06	6.4						mg/l	mg/d			
p. Barium, Total (7440-39-3)	X		0.11	11.7						mg/l	mg/d			
q. Boron, Total (7440-42-8)	X		0.33	35.0						mg/l	mg/d			
r. Cobalt, Total (7440-48-4)		X	0.07	7.4						mg/l	mg/d			
s. Iron, Total (7439-89-6)	X		1.1	0.1						mg/l	g/d			
t. Magnesium, Total (7439-95-4)	X		5.8	0.6						mg/l	g/d			
u. Molybdenum, Total (7439-98-7)	X		1.7	0.2						mg/l	g/d			
v. Manganese, Total (7439-96-5)	X		0.05	5.3						mg/l	mg/d			
w. Tin, Total (7440-31-5)		X	< 0.050	< 5.3						mg/l	mg/d			
x. Titanium, Total (7440-32-6)		X	< 0.004	< 0.4						mg/l	mg/d			

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	03A124

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	< 5.3						mg/l	mg/d			
2M. Arsenic, Total (7440-38-2)		X		0.04	4.2						mg/l	mg/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.1	< 10.6						mg/l	mg/d			
4M. Cadmium, Total (7440-43-9)		X		.004	0.4						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		.260	27.6						mg/l	mg/d			
6M. Copper, Total (7440-50-8)		X		0.1	10.6						mg/l	mg/d			
7M. Lead, Total (7439-92-1)		X		.050	5.3						mg/l	mg/d			
8M. Mercury, Total (7439-97-6)			X	< .0002	< 0.0						mg/l	mg/d			
9M. Nickel, Total (7440-02-0)		X		.28	29.7						mg/l	mg/d			
10M. Selenium, Total (7782-49-2)			X	< .001	< 0.1						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< 0.01	< 1.1						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)		X		0.51	54.0						mg/l	mg/d			
13M. Zinc, Total (7440-66-6)		X		.071	7.5						mg/l	mg/d			
14M. Cyanide, Total (57-12-5)		X		.033	3.5						mg/l	mg/d			
15M. Phenols, Total			X	< .01	< 1.1						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'			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 – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X	< 0.005	< 0.5						mg/l	mg/d			
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< 0.005	< 0.5						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 0.5						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 0.5						mg/l	mg/d			
8V. Chlorodibromomethane (124-48-1)			X	< 0.005	< 0.5						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	< 0.5						mg/l	mg/d			
12V. Dichlorobromomethane (75-27-4)			X	< 0.005	< 0.5						mg/l	mg/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X	< 0.005	< 0.5						mg/l	mg/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< 0.005	< 0.5						mg/l	mg/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< 0.005	< 0.5						mg/l	mg/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< 0.005	< 0.5						mg/l	kg/d			
18V. 1,3-Dichloropropylene (542-75-6)			X	< 0.005	< 0.5						mg/l	mg/d			
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 0.5	X					mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 1.1						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 1.1						mg/l	mg/d			

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

OUTFALL NUMBER: 03A124

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 – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 0.5						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< 0.005	< 0.5						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< 0.005	< 0.5						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< 0.005	< 0.5						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< 0.005	< 0.5						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< 0.005	< 0.5						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< 0.005	< 0.5						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< 0.005	< 0.5						mg/l	mg/d			
30V. Trichlorofluoromethane (75-69-4)			X	< 0.005	< 0.5						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 1.1						mg/l	mg/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	< 0.010	< 1.1						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< 0.010	< 1.1						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< 0.010	< 1.1						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	< 0.010	< 1.1						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< 0.010	< 1.1						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< 0.010	< 1.1						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 1.1						mg/l	mg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< 0.010	< 1.1						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< 0.010	< 1.1						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< 0.010	< 1.1						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< 0.010	< 1.1						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	< 1.1						mg/l	mg/d			
2B. Acenaphtylene (208-96-8)			X	< 0.010	< 1.1						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< 0.010	< 1.1						mg/l	mg/d			
4B. Benzidine (92-87-5)			X	< 0.010	< 1.1						mg/l	mg/d			
5B. Benzo *(a)* Anthracene (56-55-3)			X	< 0.010	< 1.1						mg/l	mg/d			
6B. Benzo *(a)* Pyrene (50-32-8)			X	< 0.010	< 1.1						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	< 0.010	< 1.1						mg/l	mg/d			
8B. Benzo *(ghi)* Perylene (191-24-2)			X	< 0.010	< 1.1						mg/l	mg/d			
9B. Benzo *(k)* Fluoranthene (207-08-9)			X	< 0.010	< 1.1						mg/l	mg/d			
10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1)			X	< 0.010	< 1.1						mg/l	mg/d			
11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4)			X	< 0.010	< 1.1						mg/l	mg/d			
12B. Bis *(2-Chloroiso-propyl)* Ether (102-60-1)			X	< 0.010	< 1.1						mg/l	mg/d			
13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7)			X	< 0.010	< 1.1						mg/l	mg/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	< 0.010	< 1.1						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< 0.010	< 1.1						mg/l	mg/d			
16B. 2-Chloro-naphthalene (91-58-7)			X	< 0.010	< 1.1						mg/l	mg/d			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	< 0.010	< 1.1						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< 0.010	< 1.1						mg/l	mg/d			
19B. Dibenzo *(a,h)* Anthracene (53-70-3)			X	< 0.010	< 1.1						mg/l	mg/d			
20B. 1,2-Dichloro-benzene (95-50-1)			X	< 0.010	< 1.1						mg/l	mg/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< 0.010	< 1.1						mg/l	mg/d			

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	03A124

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 – BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< 0.010	< 1.1						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 1.1						mg/l	mg/d			
24B. Diethyl Phthalate (84-66-2)			X	< 0.010	< 1.1						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 1.1						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 1.1						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 1.1						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (606-20-2)			X	< 0.010	< 1.1						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 1.1						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7)			X	< 0.010	< 1.1						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< 0.010	< 1.1						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 1.1						mg/l	mg/d			
33B. Hexachlorobenzene (118-74-1)			X	< 0.010	< 1.1						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 1.1						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 1.1						mg/l	mg/d			
36B. Hexachloroethane (67-72-1)			X	< 0.010	< 1.1						mg/l	mg/d			
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)			X	< 0.010	< 1.1						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 1.1						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 1.1						mg/l	mg/d			
40B. Nitrobenzene (98-95-3)			X	< 0.010	< 1.1						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< 0.010	< 1.1						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< 0.010	< 1.1						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 *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< 0.010	< 1.1						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 1.1						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 1.1						mg/l	mg/d			
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	< 0.010	< 1.1						mg/l	mg/d			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	< 0.06	< 6.4						ug/l	ug/d			
2P. α-BHC (319-84-6)			X	< 0.04	< 4.2						ug/l	ug/d			
3P. β-BHC (319-85-7)			X	< 0.1	< 10.6						ug/l	ug/d			
4P. γ-BHC (58-89-9)			X	< 0.03	< 3.2						ug/l	ug/d			
5P. δ-BHC (319-86-8)			X	< 0.12	< 12.7						ug/l	ug/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 26.5						ug/l	ug/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 6.4						ug/l	ug/d			
8P. 4,4'-DDE (72-55-9)			X	< 0.08	< 8.5						ug/l	ug/d			
9P. 4,4'-DDD (72-54-8)			X	< 0.08	< 8.5						ug/l	ug/d			
10P. Dieldrin (60-57-1)			X	< 0.08	< 8.5						ug/l	ug/d			
11P. α-Endosulfan (115-29-7)			X	< 0.05	< 5.3						ug/l	ug/d			
12P. β-Endosulfan (115-29-7)			X	< 0.08	< 8.5						ug/l	ug/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< 0.09	< 9.5						ug/l	ug/d			
14P. Endrin (72-20-8)			X	< 0.06	< 6.4						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.62	< 65.7						ug/l	ug/d			
16P. Heptachlor (76-44-8)			X	< 0.03	< 3.2						ug/l	ug/d			

CONTINUE ON PAGE V-9

CONTINUED FROM PAGE V-8

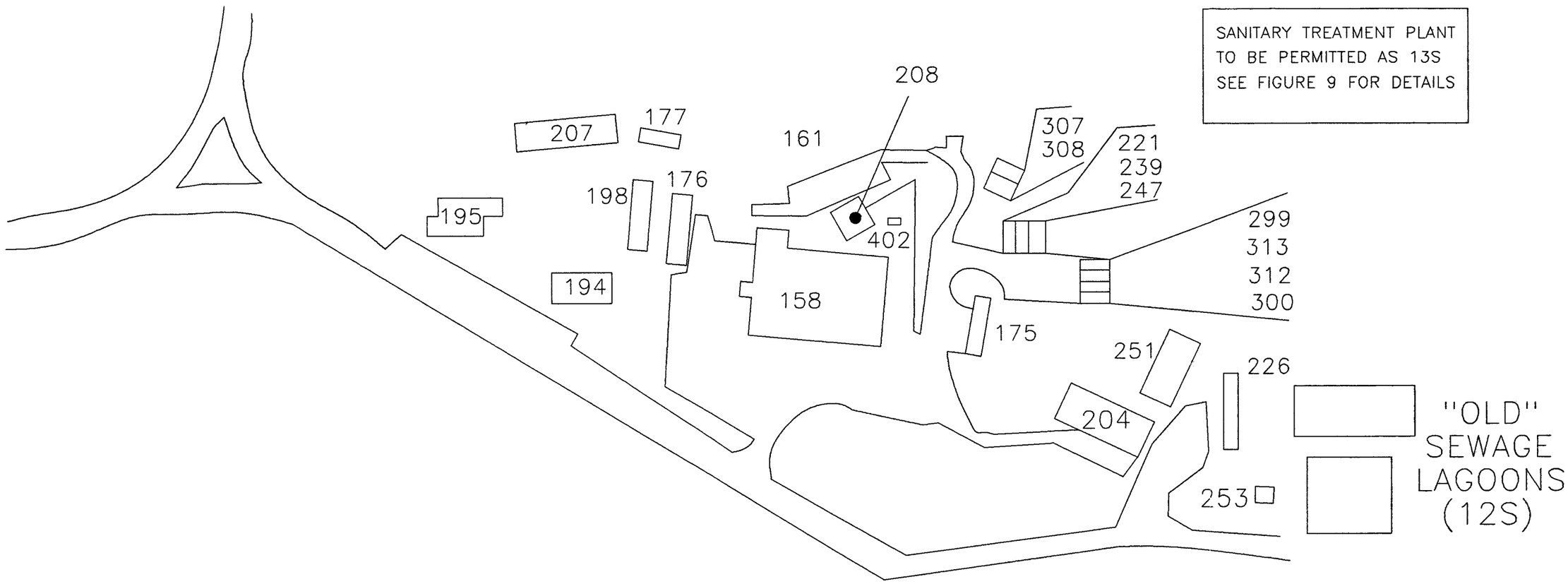
EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	03A124

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

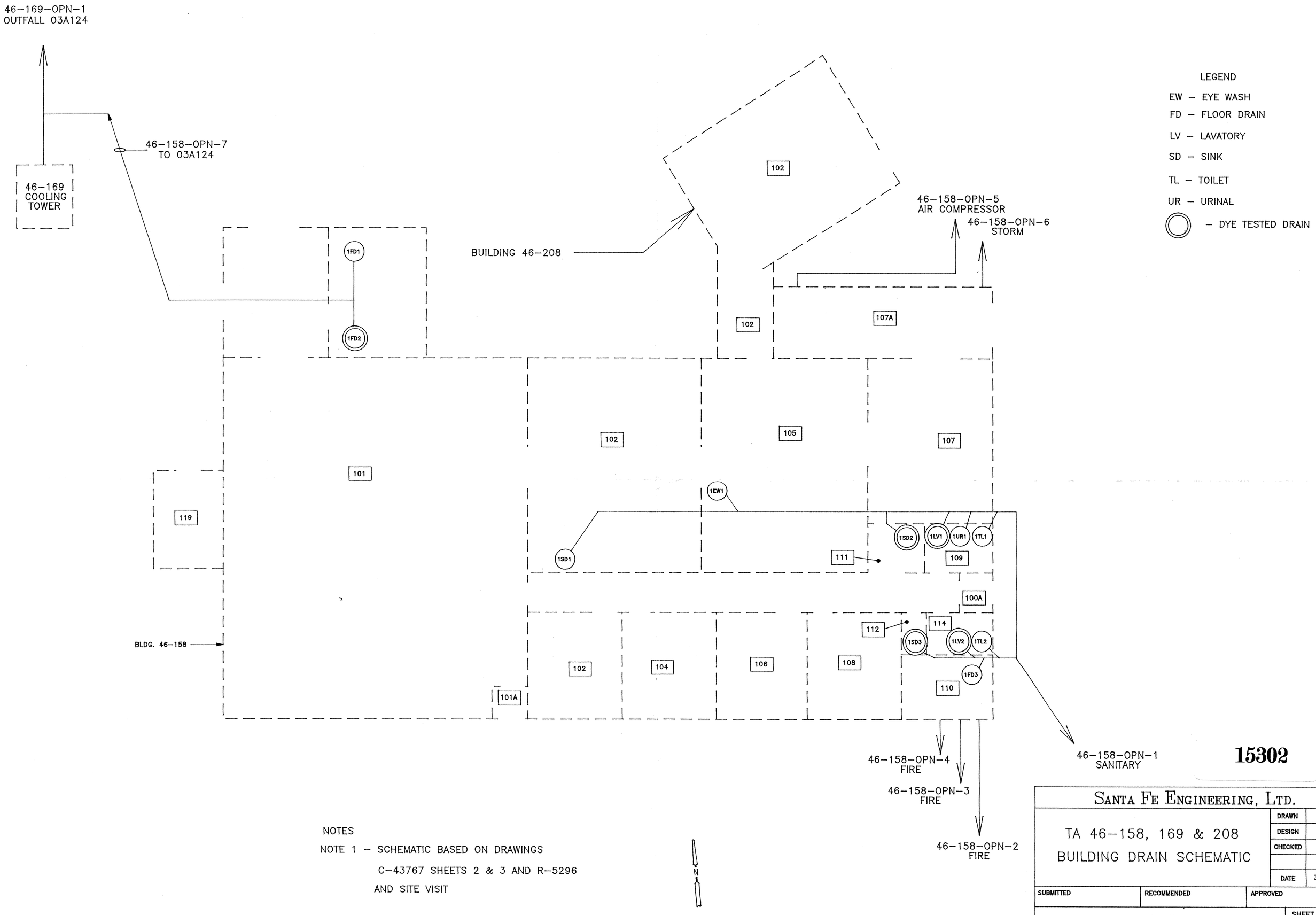
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. 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	< 0.08	< 8.5						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< 0.71	< 75.2						ug/l	ug/d			
19P. PCB-1254 (11097-69-1)			X	< 0.71	< 75.2						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	< 0.71	< 75.2						ug/l	ug/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 0.3						ug/l	mg/d			

DYE STUDY INFORMATION

BUILDING NUMBER	DRAIN NUMBER	DID DYE REACH EXPECTED DESTINATION?	COMMENTS
46-158	1LV1	YES	TO SANITARY SEWER
	1LV2	YES	TO SANITARY SEWER
	1SD2	YES	TO SANITARY SEWER
	1SD3	YES	TO SANITARY SEWER
46-161	1FD1	NO	VERIFY IN SPRING
46-169	1FD2	YES	TO 03A124
46-175	1LV1	YES	TO SANITARY SEWER
46-194	1LV1	YES	TO SANITARY SEWER
	1LV2	YES	TO SANITARY SEWER
	1SD1	YES	TO SANITARY SEWER
46-195	1SD1	YES	TO SANITARY SEWER
	1TL1	YES	TO SANITARY SEWER
46-333	1SD2	NO	COULD NOT SEE DYE IN SUMP
	1SD3	NO	COULD NOT SEE DYE IN SUMP
	1TL1	NO	COULD NOT SEE DYE IN SUMP
46-339	1FD1	NO	COULD NOT SEE DYE IN SUMP



SANTA FE ENGINEERING, LTD.			
TA-46 PARTIAL PLOT PLAN	DRAWN	PEB	
	DESIGN	PEB	
	CHECKED	LBA	
	DATE	2/5/93	
SUBMITTED	RECOMMENDED	APPROVED	
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545	SHEET	OF	
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION / REQUESTING GROUP EM-8	LAB JOB NO. 11056-68	DRAWING NO. FIGURE 1	REV.



15302

NOTES

NOTE 1 – SCHEMATIC BASED ON DRAWINGS C-43767 SHEETS 2 & 3 AND R-5296 AND SITE VISIT

SANTA FE ENGINEERING, LTD.

TA 46-158, 169 & 208
BUILDING DRAIN SCHEMATIC

DRAWN	PEB
DESIGN	PEB
CHECKED	LBA
DATE	3/4/93

SUBMITTED | RECOMMENDED | APPROVED

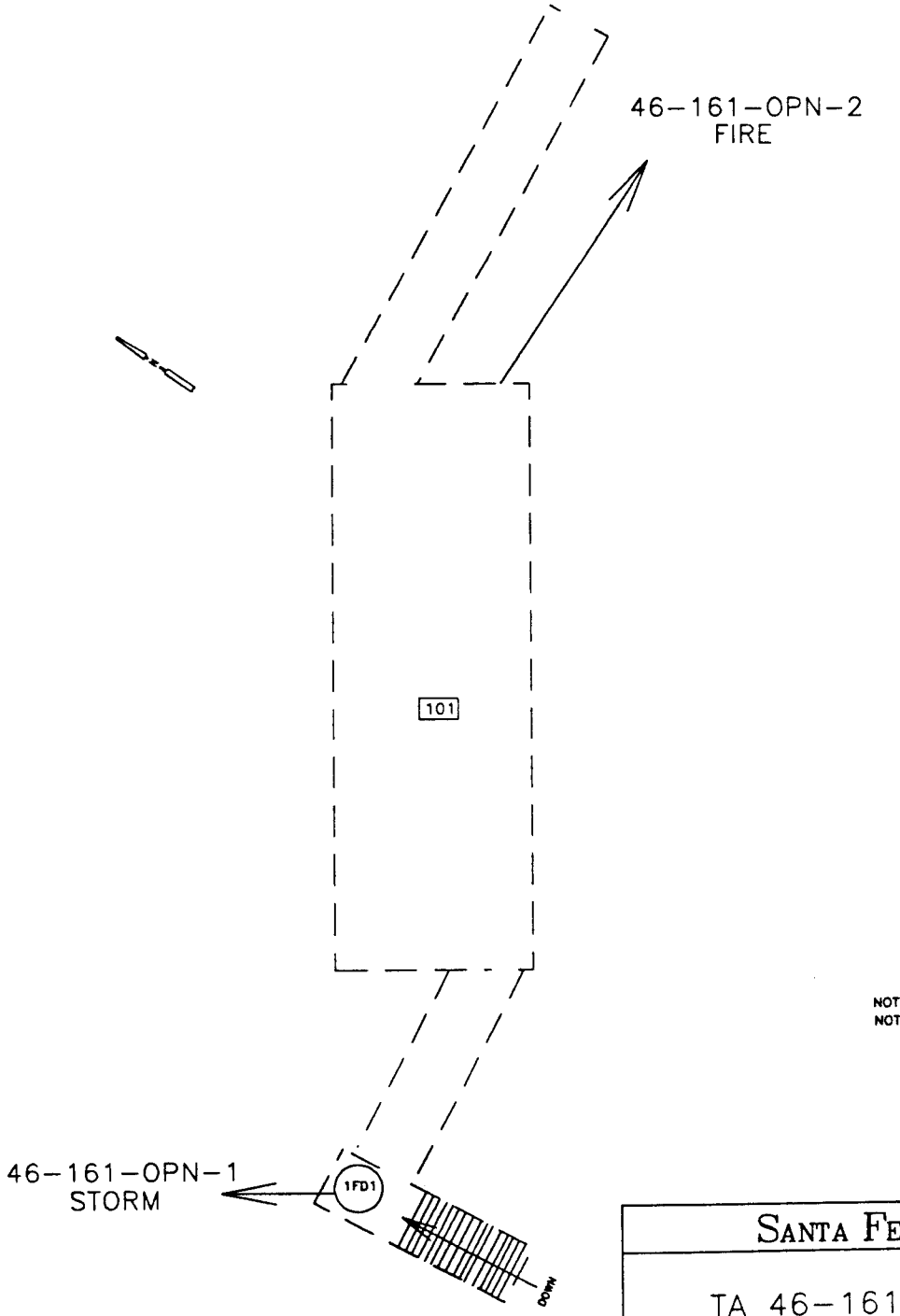
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET / OF

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. 11056-68 | DRAWING NO. FIGURE 2 | REV.

REQUESTING GROUP EM-8

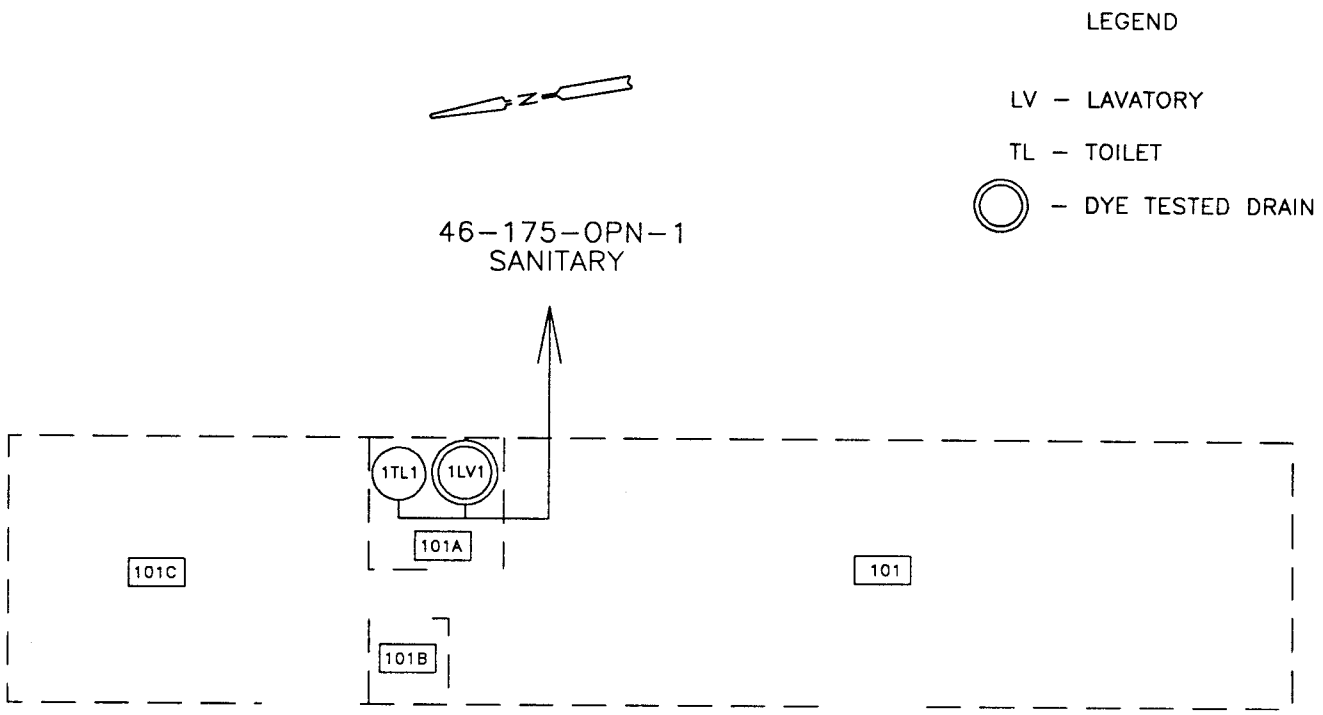


LEGEND

FD – FLOOR DRAIN

NOTES
NOTE 1 – SCHEMATIC BASED ON DRAWING R-5324 AND SITE VISIT

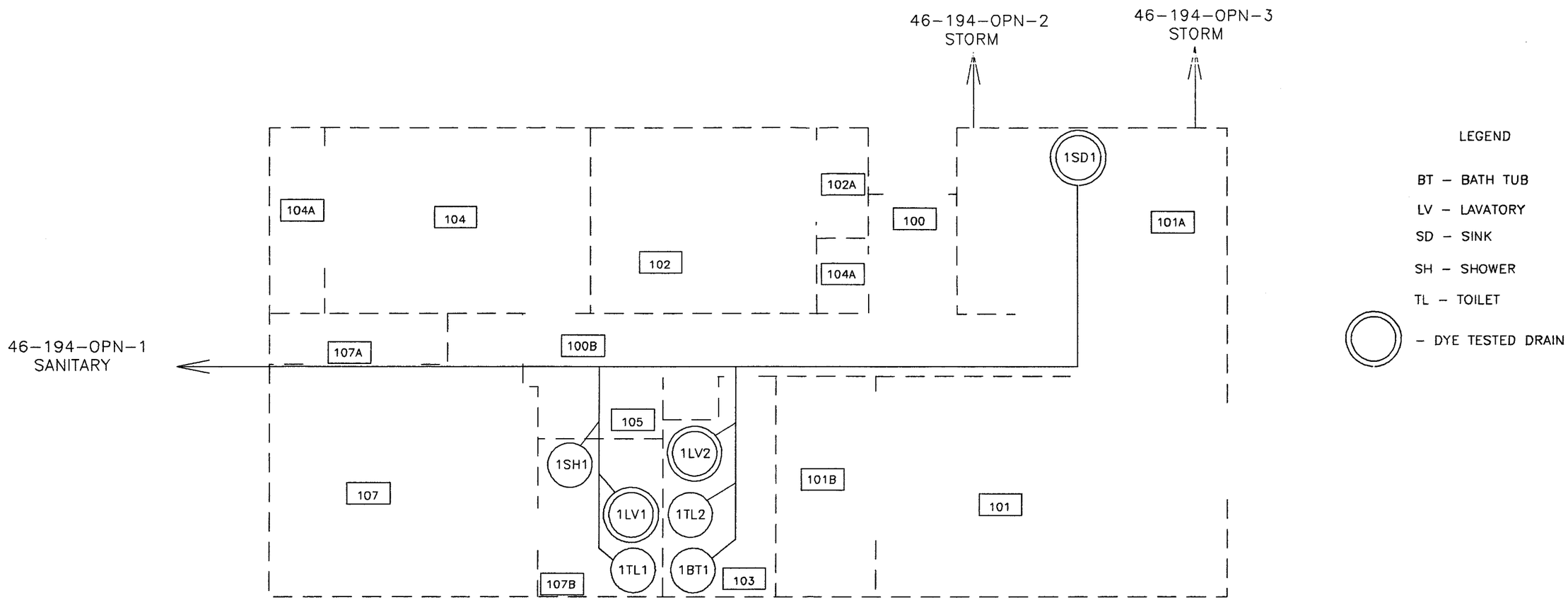
SANTA FE ENGINEERING, LTD.			
TA 46-161 BUILDING DRAIN SUMMARY		DRAWN	PEB
		DESIGN	PEB
		CHECKED	LBA
		DATE	2/26/93
SUBMITTED	RECOMMENDED	APPROVED	
Los Alamos	Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET	OF
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-68	FIGURE 3	



NOTES

NOTE 1 – SCHEMATIC BASED ON DRAWING R–7131 AND SITE VISIT

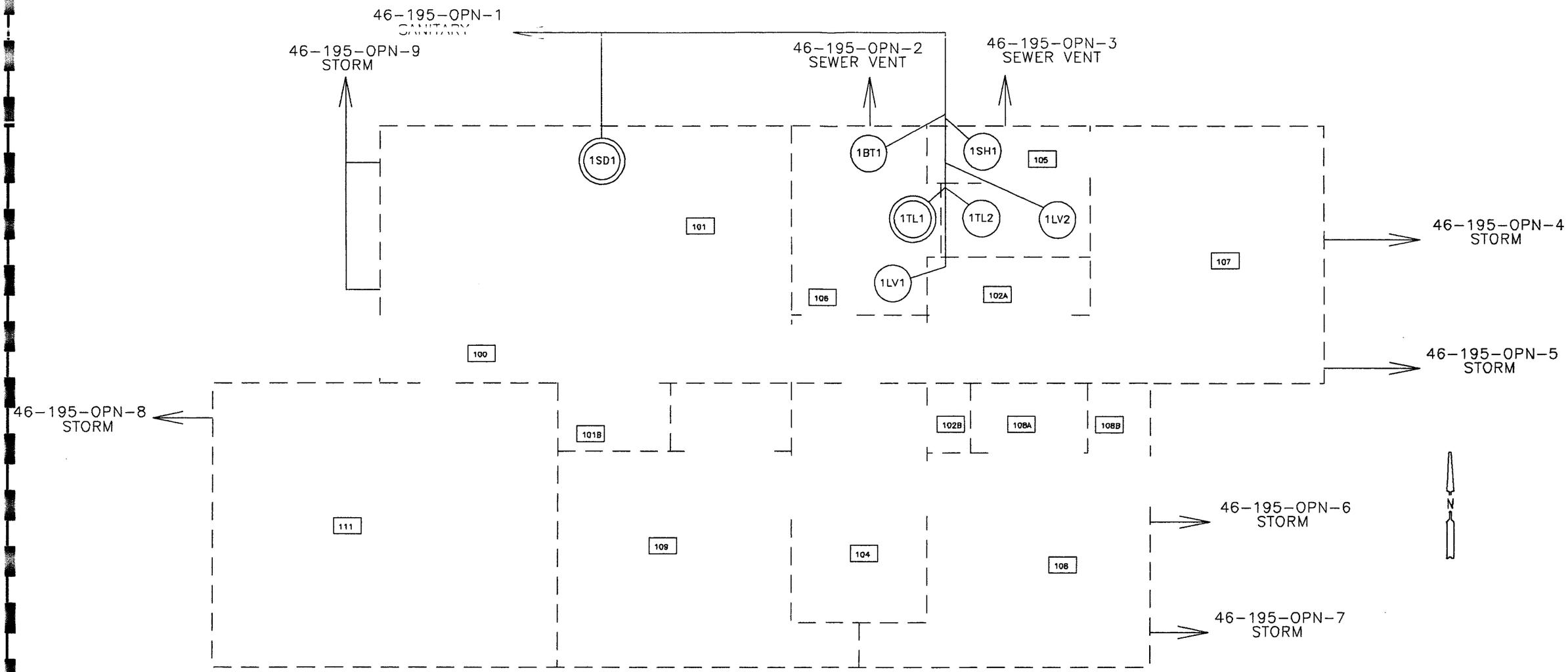
SANTA FE ENGINEERING, LTD.		
TA 46–175 BUILDING DRAIN SCHEMATIC	DRAWN	PEB
	DESIGN	PEB
	CHECKED	LBA
	DATE	2/26/93
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos	Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET / OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO. / REV.
REQUESTING GROUP EM–8	11056–68	FIGURE 4



NOTES

NOTE 1 – SCHEMATIC BASED ON DRAWING R-4830 AND SITE VISIT

SANTA FE ENGINEERING, LTD.		
TA 46-194 BUILDING DRAIN SCHEMATIC	DRAWN	PEB
	DESIGN	PEB
	CHECKED	LBA
	DATE	3/4/93
SUBMITTED / RECOMMENDED / APPROVED		
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545	SHEET	OF
CLASSIFICATION / REVIEWER	DATE	
REQUESTING DIVISION / REQUESTING GROUP EM-8	LAB JOB NO. 11056-68	DRAWING NO. FIGURE 5 / REV.



LEGEND

BT – BATH TUB

LV – LAVATORY

SD – SINK

SH – SHOWER

TL – TOILET

NOTES

NOTE 1 – SCHEMATIC BASED ON DRAWING R-5228 AND SITE VISIT

SANTA FE ENGINEERING, LTD.

TA 46-195 BUILDING DRAIN SCHEMATIC

DRAWN	PEB
DESIGN	PEB
CHECKED	LBA
DATE	3/4/93

SUBMITTED | RECOMMENDED | APPROVED

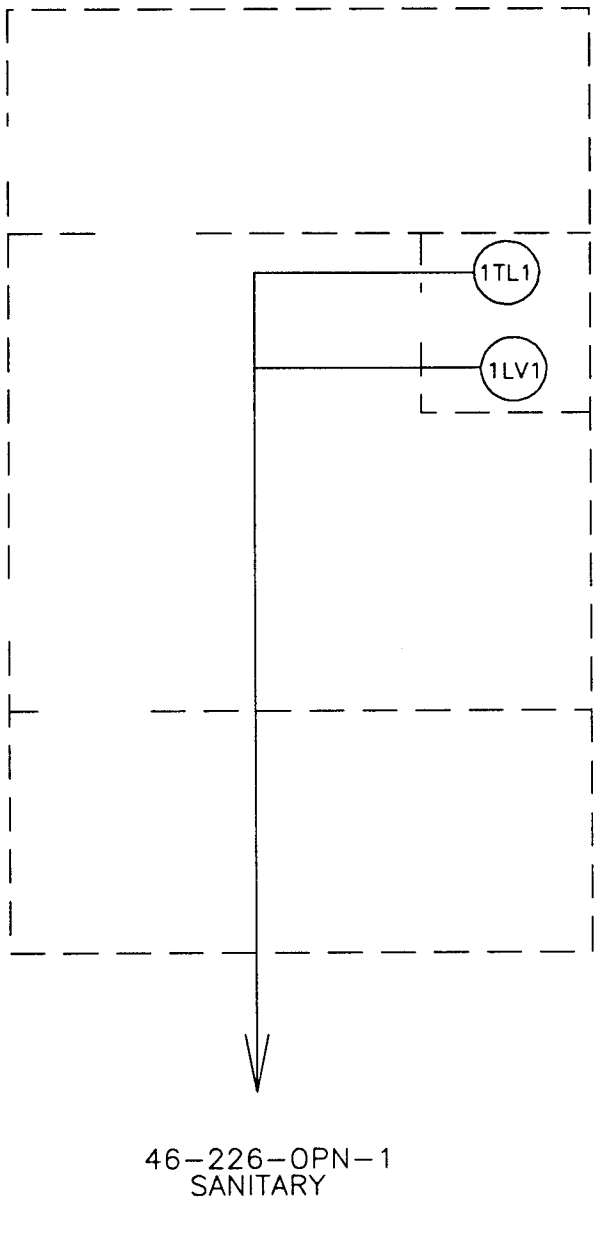
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET / OF

CLASSIFICATION | REVIEWER | DATE

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

REQUESTING GROUP EM-8 | 11056-68 | FIGURE 6



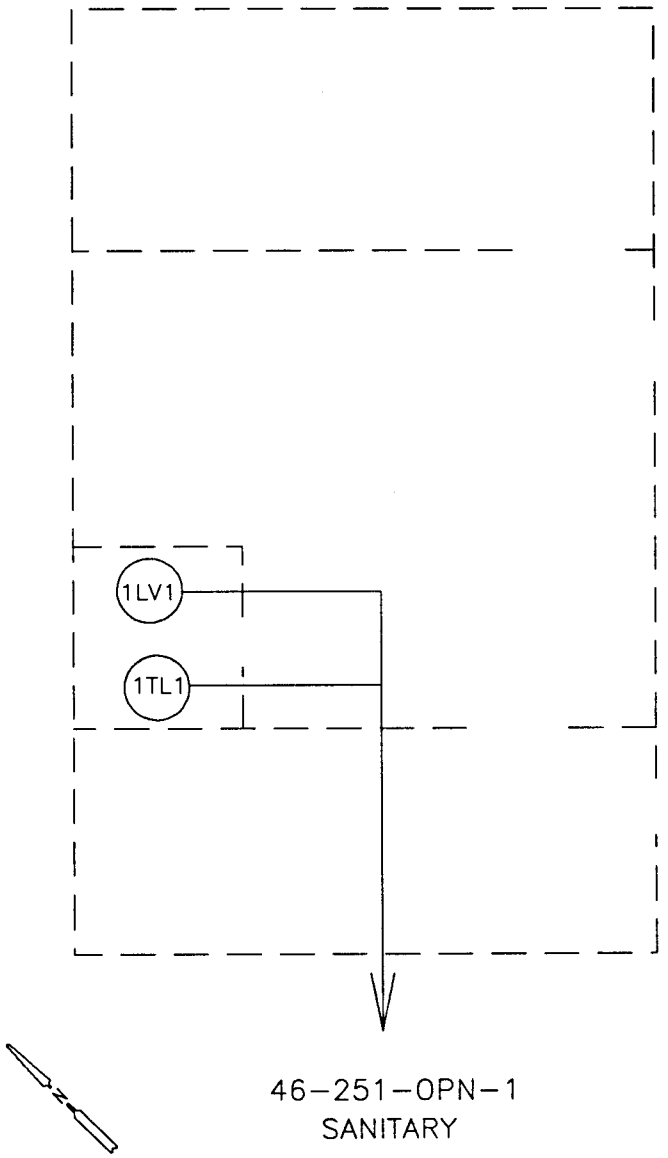
LEGEND

LV – LAVATORY

TL – TOILET

NOTES
NOTE 1 – SCHEMATIC BASED ON SITE VISIT
NOTE 2 – DYE TESTED NOT DONE DUE TO UNAVAILABILITY OF WATER.

SANTA FE ENGINEERING, LTD.		
TA 46-226 BUILDING DRAIN SUMMARY	DRAWN	PEB
	DESIGN	PEB
	CHECKED	LBA
	DATE	3/1/93
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545	SHEET	OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION / REQUESTING GROUP EM-8	LAB JOB NO. 11056-68	DRAWING NO. FIGURE 7 / REV.



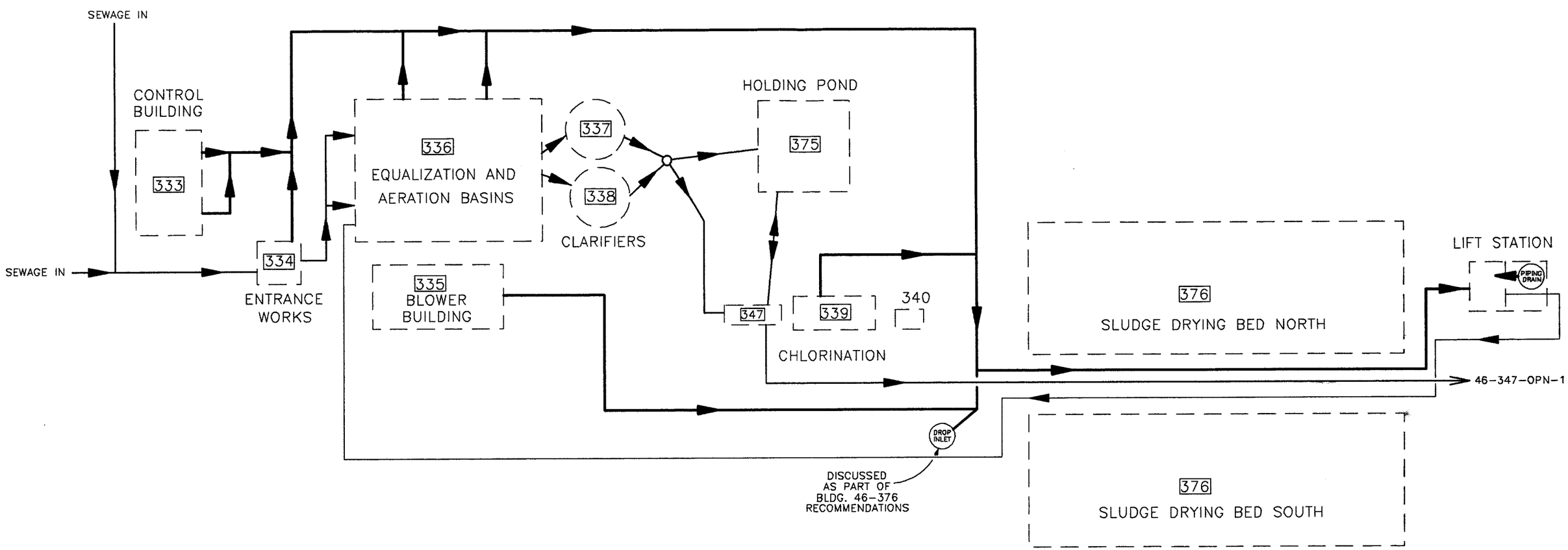
LEGEND

LV – LAVATORY

TL – TOILET

NOTES
NOTE 1 – SCHEMATIC BASED ON SITE VISIT
NOTE 2 – DYE TESTED NOT DONE DUE TO UNAVAILABILITY OF WATER.

SANTA FE ENGINEERING, LTD.		
TA 46-251 BUILDING DRAIN SUMMARY	DRAWN	PEB
	DESIGN	PEB
	CHECKED	LBA
	DATE	3/1/93
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545	SHEET	OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION / REQUESTING GROUP EM-8	LAB JOB NO. 11056-68	DRAWING NO. FIGURE 8 / REV.



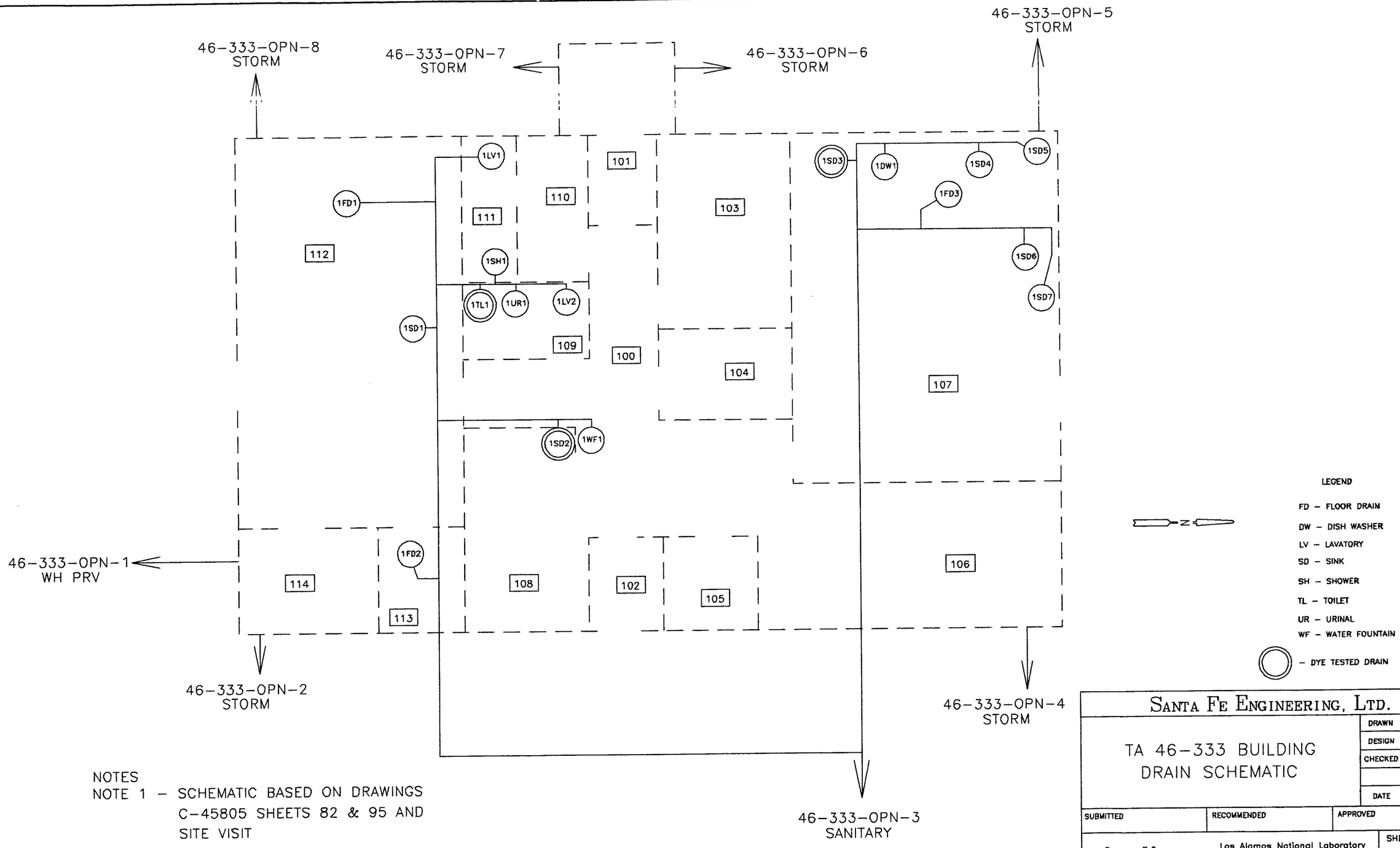
NEW SWSC PLANT SCHEMATIC

NOTES

NOTE 1 – SCHEMATIC BASED ON DRAWINGS C-45805 SHEETS 25, 26 & 38 AND SITE VISIT

N

SANTA FE ENGINEERING, LTD.		
SANITARY WASTEWATER SYSTEMS CONSOLIDATION DRAIN SCHEMATIC	DRAWN	PEB
	DESIGN	PEB
	CHECKED	LBA
	DATE	3/3/93
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos	Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET / OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION / REQUESTING GROUP EM-8	LAB JOB NO. 11056-68	DRAWING NO. FIGURE 9 / REV.



NOTES
NOTE 1 – SCHEMATIC BASED ON DRAWINGS C-45805 SHEETS 82 & 95 AND SITE VISIT

SWSC CONTROL BLDG.

SANTA FE ENGINEERING, LTD.

TA 46-333 BUILDING
DRAIN SCHEMATIC

DRAWN	PEB
DESIGN	PEB
CHECKED	LBA
DATE	3/3/93

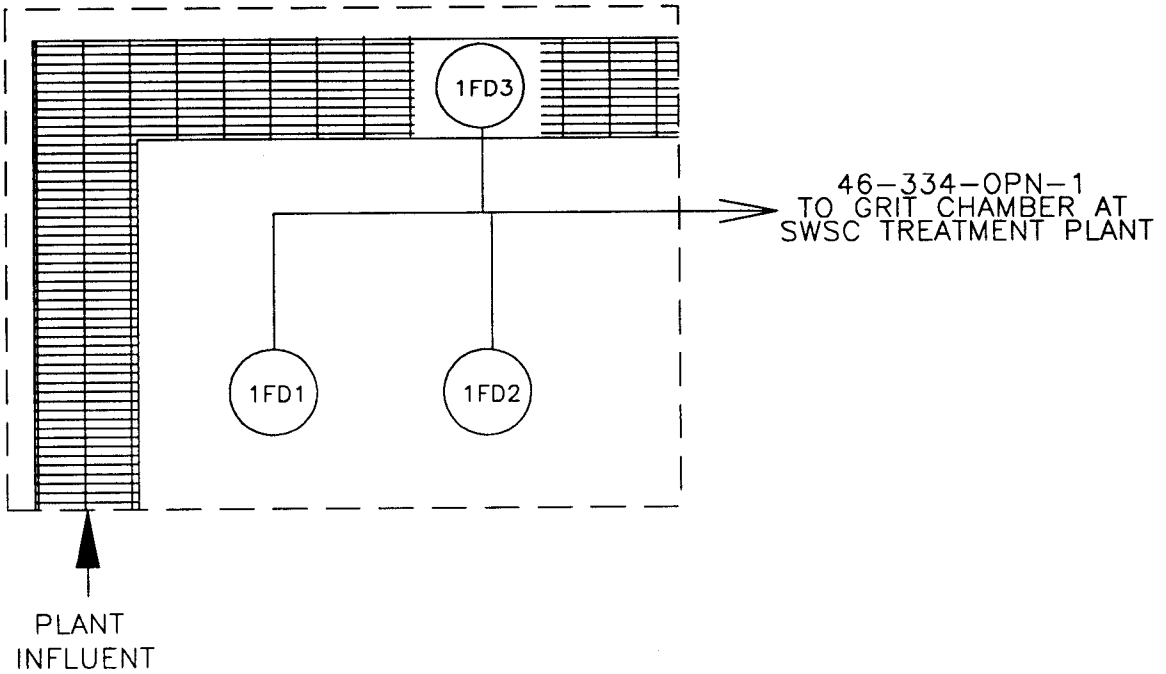
SUBMITTED | RECOMMENDED | APPROVED

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

SHEET / OF

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-68	FIGURE 10	



SWSC "ENTRANCE WORKS"

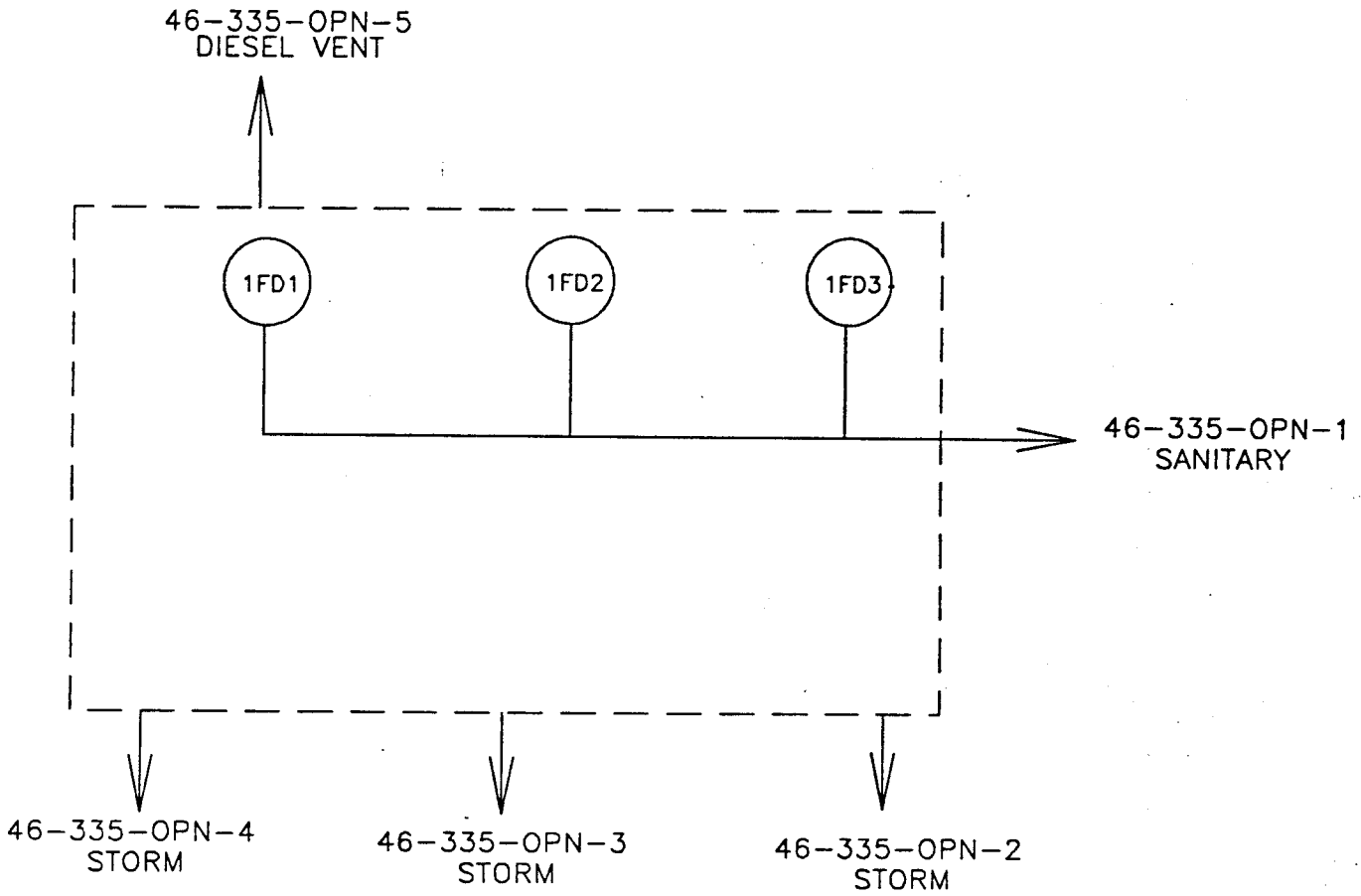
N

LEGEND

FD – FLOOR DRAIN

NOTES
NOTE 1 – SCHEMATIC BASED ON SITE VISIT

SANTA FE ENGINEERING, LTD.		
TA 46-334 BUILDING DRAIN SUMMARY	DRAWN	PEB
	DESIGN	PEB
	CHECKED	LBA
	DATE	3/3/93
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos	Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET / OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION	LAB JOB NO. 11056-68	DRAWING NO. FIGURE 11	REV.
REQUESTING GROUP EM-8		



SWSC BLOWER BUILDING

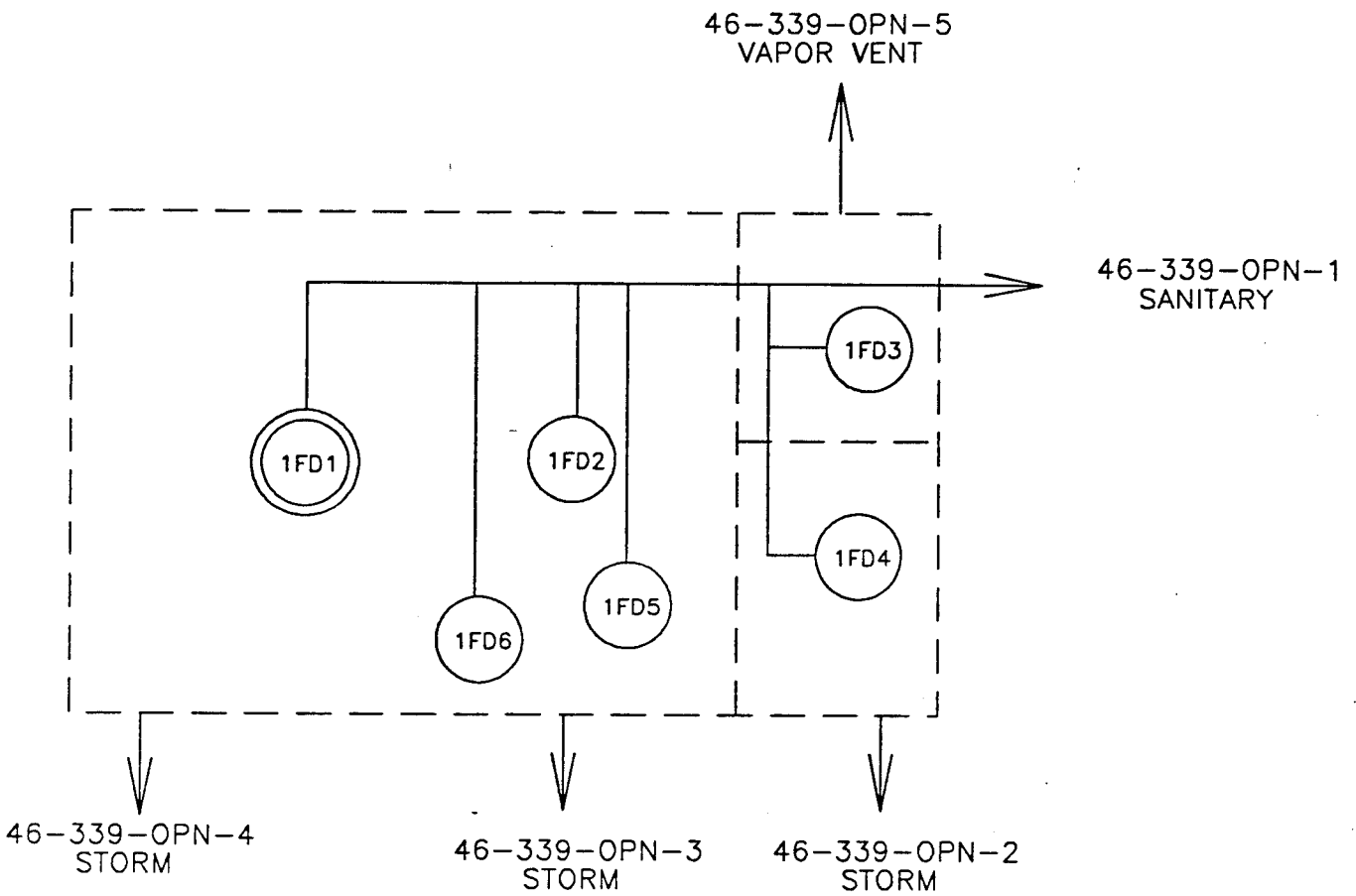
N

LEGEND

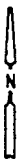
FD – FLOOR DRAIN

NOTES
NOTE 1 – SCHEMATIC BASED ON SITE VISIT

SANTA FE ENGINEERING, LTD.		
TA 46-335 BUILDING DRAIN SUMMARY	DRAWN	PEB
	DESIGN	PEB
	CHECKED	LBA
	DATE	3/3/93
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545	SHEET	OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION / REQUESTING GROUP EM-8	LAB JOB NO. 11056-68	DRAWING NO. FIGURE 12 / REV.



SWSC CHLORINATION BLDG.



LEGEND

FD – FLOOR DRAIN

– DYE TESTED DRAIN

NOTES
NOTE 1 – SCHEMATIC BASED ON SITE VISIT

SANTA FE ENGINEERING, LTD.		
TA 46-339 BUILDING DRAIN SUMMARY	DRAWN	PEB
	DESIGN	PEB
	CHECKED	LBA
	DATE	3/3/93
SUBMITTED	RECOMMENDED	APPROVED
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545	SHEET	OF
CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION / REQUESTING GROUP EM-8	LAB JOB NO. 11056-68	DRAWING NO. FIGURE 13 / REV.