



**WASTEWATER STREAM  
CHARACTERIZATION FOR  
TA 3-16, 65, 130, 208, 316,  
477, 550, 1228, 1229, 1522,  
1538, 1612, 1730, 1731, 1734,  
1762, 1898, 1944, 1945, 1946,  
1949, 2003, 2004, 2005, 2006,  
2007, 2008, 2009, 2040, 2062,  
2130, 2143 AND 2164**

at  
Los Alamos National Laboratory

**ENVIRONMENTAL STUDY**  
CHARACTERIZATION REPORT #38

**Los Alamos**

ENVIRONMENTAL MANAGEMENT DIVISION

Los Alamos National Laboratory  
Los Alamos, New Mexico 87545

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

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CHARACTERIZATION FOR

TA-3-16, 65, 130, 208, 316, 477, 550, 1228,  
1229, 1522, 1538, 1612, 1730, 1731, 1734,  
1762, 1898, 1944, 1945, 1946, 1949, 2003,  
2004, 2005, 2006, 2007, 2008, 2009, 2010,  
2062, 2130, 2143 and 2164

ENVIRONMENTAL STUDY

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

under subcontract 9-XG8-2874P-1

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July, 1992

UPDATED ESH-8 COMMENTS FEBRUARY, 1994

## EXECUTIVE SUMMARY

Buildings TA-3-16, 65, 130, 208, 316, 477, 550, 1228, 1229, 1522, 1538, 1612, 1730, 1731, 1734, 1762, 1898, 1944, 1945, 1946, 1949, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2062, 2130, 2143 and 2164 were visited to document all drain piping and building outflows and to make permitting recommendations. Ninety-five pipes were found exiting the buildings as follows:

1. from TA-3-16, two sanitary sewer connections, one radioactive liquid waste connection, three roof drains, sixteen fire line drains, one electrical conduit stub, three exhaust vents, three sanitary sewer vents, one air dryer exhaust, one water line drain, one expansion tank drain and two condensed water drains,
2. from TA-3-65, one radioactive liquid waste connection,
3. from TA-3-130, one sanitary sewer connection and one condensed water drain,
4. from TA-3-208, one connection to permitted outfall 03A025,
5. from TA-3-316, two sanitary sewer connections, four fire line drains, three exhaust vents, one water drain from an evaporative cooler and one compressed air pressure relief discharge,
6. from TA-3-1522, one condensed water drain,
7. from TA-3-1538, one condensed water drain,
8. from TA-3-1612, one sanitary sewer connection and one water drain from an evaporative cooler,
9. from TA-3-1730, one condensed water drain,
10. from TA-3-1731, one sanitary sewer connection and one condensed water drain,
11. from TA-3-1734, one condensed water drain,

12. from TA-3-1762, one sanitary sewer connection, one condensed water drain and one water heater pressure relief valve drain,
13. from TA-3-1898, one condensed water drain,
14. from TA-3-2003, one sanitary sewer connection, one condensed water drain and one water heater pressure relief valve drain,
15. from TA-3-2004, one sanitary sewer connection, one condensed water drain, one water heater pressure relief valve drain and one domestic water backflow preventer drain,
16. from TA-3-2005, one condensed water drain and one water heater pressure relief valve drain and one connection to the sanitary sewer via building 3-2004,
17. from TA-3-2006, one sanitary sewer connection, one condensed water drain, one domestic water backflow preventer drain and one fire line drain,
18. from TA-3-2007, one domestic water backflow preventer drain, one condensed water drain and one fire line drain,
19. from TA-3-2008, one sanitary sewer connection, one water heater pressure relief valve drain, one domestic water backflow preventer drain, one condensed water drain and one fire line drain,
20. from TA-3-2009, one sanitary sewer connection, one radioactive liquid waste connection, one water heater pressure relief valve drain, one domestic water backflow preventer drain and one condensed water drain and
21. from TA-3-2010, one sanitary sewer connection, one water heater pressure relief valve drain, four nitrogen tank pressure regulator discharges, two condensed water drains and one domestic water backflow preventer drain.

Buildings TA-3-477, 550, 1228, 1229, 1944, 1945, 1946, 1949, 2062, 2130, and 2164 do not have any water supplies or drains.

Building TA-3-2143 could not be located. According to ENG-7, this structure was relocated to TA-53 and renumbered as 53-636 (see report #32).

A revised EPA Form 2C is included for the permitted outfall (03A025). The flows shown on the forms are estimated from site observations, from discussion with users and from data on the Discharge Monitoring Reports (DMR). Analytical data is defined from information from the previously sampled outfalls.

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

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

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## 1.0 INTRODUCTION

During June, 1992, Mark E. Wendt of Santa Fe Engineering (SFE) toured buildings 16, 65, 130, 208, 316, 477, 550, 1228, 1229, 1522, 1538, 1612, 1730, 1731, 1734, 1762, 1898, 1944, 1945, 1946, 1949, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2062, 2130, 2143 and 2164 in TA-3.

The purpose of this study is to identify building drain piping, locate outfalls which discharge into the environment and to characterize the wastewater flows and sources existing at the time of the visit. This report will not reflect any subsequent changes in piping or operations. The Waste 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 building were identified and laid out in schematic form;
2. Wastewater sources were identified at each drain and the wastewater was characterized according to the flow rate and quality. The location of outfalls and their potential sources of discharges were determined. Potential pollutants were also noted;
3. Permit applications for discharges of clean water were not prepared since these discharges do not require permitting at this time and
4. Potential problems were identified and recommendations were made for repiping, floor drain plugging and spill containment, where deemed appropriate.

The field investigation proceeded by verifying drain schematic drawings prepared by SFE for the appropriate buildings (Figures 1 through 17) from drawings provided by Los Alamos National

Laboratory (LANL) Facilities Engineering Division. The other buildings were visited to insure that no drains exist for the buildings. The following process was used to define drain piping and characterize the wastewater streams:

1. Laboratory engineering drawings were used to prepare the SFE drain piping schematic. The Solid Waste Stream Characterization conducted by IT Corporation was reviewed. Permit (NPDES), the 1990 NPDES Permit Application submitted by Los Alamos National Laboratory (LANL) in September, 1990, the latest Federal Facilities Compliance Agreement (FFCA) between the Department of Energy (DOE) and the Environmental Protection Agency (EPA) and the Administrative Order (AO) Docket Number VI-92-1306 issued by EPA to the University of California were used for reference;
2. A site visit was performed to verify the SFE drain schematics and to identify potential outfall pipes exiting the building. The visit entailed a room by room inspection of wastewater sources and drains. Interviews with site personnel were conducted to assist in wastestream characterization and
3. SFE verified drain piping by dye checking.



## 2.0 FIELD INVESTIGATION

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

Each drain has a unique identification number. Each number consists of three parts. The first part is the floor the drain is on. The second part has letters that indicate the drain type (abbreviations used are summarized in Table 23). The final part is a unique number for each drain. For example, the floor drain numbering on the first floor would start is 1FD1. The roof drains do not have the number identifying the floor such as RD1 for Roof Drain 1.

The function of each pipe exiting from buildings are listed in Appendix 1, Tables 1 through 21, with an abbreviations list in Table 23. Table 22 of Appendix 1 is a list of non-drain recommendations. Appendix 2 contains the wastestream characterization database output, listing wastewater source, flow rates and periodicity information for each outfall drain. Completed EPA forms are in Appendix 3 for appropriate outfalls. Appendix 4 provides information about the dye study of building drains. Flow schematics of the drains from each building are attached in Appendix 5 as Figures 2 through 17. A Site Plan is included in Appendix 5 as Figure 1 illustrating the locations of buildings included in this report.



### 3.0 RECOMMENDATIONS FOR BUILDINGS WITH NO SOURCE OF WATER AND NO DRAINS

Buildings 3-477, 550, 1228, 1229, 1944, 1945, 1946, 1949, 2062, 2130 and 2164 do not have drains or any source of water. No changes or permitting are recommended. No EPA forms were prepared.

### 4.0 RECOMMENDATIONS FOR BUILDING 3-16

Table 1 is a list of the drains to the building outfalls and Figures 2 and 3 are schematics 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 recommendation.

There is an existing oil-filled transformer containing PCB's located exterior of the building at the northwest corner. There is potential for oil drainage into Two Mile Canyon if a leak in the transformer occurred. It is recommended this transformer be provided with secondary containment.

#### 4.1 Outfall 3-16-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the site sanitary sewer system. No chemicals are drained into any of the drains or fixtures. Fume hood sinks 1SD4 and 1SD5 are contaminated with Tritium compounds and are not currently being used. It is recommended these two sinks be removed and the drain lines be capped in the wall. This room was previously a controlled area. No permitting is required for this outfall and no EPA forms have been prepared.

#### 4.2 Outfall 3-16-OPN-2

This outfall is from sanitary facilities and flows into a sewer manhole which drains into the site sanitary sewer system. Small quantities of Tritium-contaminated water are drained into some of the fixtures and floor drains.

This outfall contains one sump pump, SBSP1, in the sub-basement room 3 which receives Tritium-contaminated flow from all fixtures and drains located in rooms 2, 3, 70, 62, 64, 66, 67, 69, 170 and 270 (all are controlled areas). This sump then pumps up and connects to a sanitary sewer pipe which runs to a sewage lift station BSLS1 located in mechanical room 50. This lift station in turn pumps sewage up to the sanitary sewer manhole at the east side of the building. It is recommended the sump pump discharge pipe and associated line leading to the sewage lift station be re-routed, upstream of any other sanitary connection and connected to the existing radioactive liquid waste (RLW) drain pipe exiting the building from mechanical room 50. This would route all fixtures and drains in rooms 2,3, 70, 62, 64, 66, 67, 69, 170 and 270 to the RLW drainage system.

There is an accumulation of oil residue in the bottom of the existing floor trench in Vertical Accelerator room 70. A complete and through cleaning of the floor trench is recommended.

It is recommended that secondary containment be provided for the air compressor unit, vacuum pump and air dryer unit located in vertical accelerator room (70). Containerizing the drains from each of these pieces of equipment is also recommended.

Removal of toilet BTL1 and urinal BUR1 in room 44 and re-routing sanitary sewer pipe from rooms 21, 41, 42 and 44 to the RLW system are recommended. This would convert the existing shower in room #44 to an "emergency shower only". Rooms 42 and 44 are controlled areas.

Removal of water fountain 1WF2 located in control room 140 (controlled area) and replacing it with bottle water is also recommended. No permitting is required for this outfall and no EPA forms have been prepared.

#### 4.3 Outfall 3-16-OPN-3

This outfall is from RLW facilities and flows to the Radioactive Waste Treatment Plant located at TA-50. Small amounts of Tritium compounds, Iodine 125 and Sulfur 35 are drained down various fixtures. No piping changes are recommended. No EPA forms were prepared.

#### 4.4 Outfall 3-16-OPN-4

This outfall is from roof drains on the building and from one floor drain in the building. The discharge pipe drains to daylight into a tributary of Two Mile Canyon. Plugging of floor drain BFD10 in generator room 68 is recommended. No permitting is needed for this outfall and no EPA forms have been prepared.

#### 4.5 Outfalls 3-16-OPN-5, 3-16-OPN-6, 3-16-OPN-7, 3-16-OPN-11, 3-16-OPN-12, 3-16-OPN-13, 3-16-OPN-14, 3-16-OPN-17, 3-16-OPN-18, 3-16-OPN-21, 3-16-OPN-22, 3-16-OPN-23, 3-16-OPN-24, 3-16-OPN-25, 3-16-OPN-33 and 3-16-OPN-34

These outfalls are fire water system drains which discharge to daylight next to the building. These outfalls should be covered by a Notice of Intent to Discharge (NOI). No piping changes are recommended. No EPA forms were prepared.

#### 4.6 Outfall 3-16-OPN-8

This outfall is an abandoned electrical conduit which is broken just exterior of building. This stub has since been plugged. No permitting is needed for this outfall and no EPA forms have been prepared.

#### 4.7 Outfalls 3-16-OPN-9, 3-16-OPN-16 and 3-16-OPN-29

These outfalls are equipment exhaust vents which discharge to atmosphere next to the building. No piping or ducting changes are recommended. No EPA forms were prepared.

#### 4.8 Outfalls 3-16-OPN-10 and 3-16-OPN-15

These outfalls are from roof drains on the building. The downspouts drain to daylight next to the building. No permitting is needed for these outfalls and no EPA forms have been prepared.

#### 4.9 Outfall 3-16-OPN-19

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

#### 4.10 Outfall 3-16-OPN-20

This outfall is from the accelerator water intake diverter line and discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were prepared.

#### 4.11 Outfalls 3-16-OPN-26, 3-16-OPN-27 and 3-16-OPN-28

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

#### 4.12 Outfall 3-16-OPN-30

This outfall is a steam heat exchanger pressure relief valve discharge to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were prepared.

#### 4.13 Outfalls 3-16-OPN-31 and 3-16-OPN-32

These outfalls are condensed water drains from mechanical equipment and discharge to daylight onto the roof of machine room 62. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were prepared.

### 5.0 **RECOMMENDATIONS FOR BUILDING 3-65**

Table 2 is a list of the drains to the building outfalls and Figure 4 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendation for changes to the drain piping. The one outfall is from RLW facilities and flows to the Radioactive Waste Treatment Plant located at TA-50. This building is currently not being occupied and is being used for storage. It is recommended lavatory 1LV1 and sink 1SD1 be removed and the drain lines plugged. No permitting is required for this outfall and no EPA forms have been prepared.

## 6.0 RECOMMENDATION FOR BUILDING 3-130

Table 3 is a list of 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 recommendation for change to the drain piping. The discussion below gives the reasoning for the recommendations.

### 6.1 Outfall 3-130-OPN-1

This outfall is from sanitary facilities and flows into a septic tank TA-03-1484 (LA-11) which flows to a seepage pit. No chemicals are drained into any of the drains or fixtures. It is recommended that the sanitary waste line from this building be rerouted from the septic tank to the site sanitary sewer collection system and that the septic tank be decommissioned and its permit eliminated. No permitting is required for this outfall and no EPA forms have been prepared.

### 6.2 Outfall 3-130-OPN-2

This outfall drains condensed water from a packaged mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms have been prepared.

## 7.0 RECOMMENDATIONS FOR BUILDING 3-208

Table 4 is a list of the drains to the building outfall 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 one outfall receives flow from three floor drains, one of which receives treated cooling water blowdown, and discharges to daylight into a tributary of Two Mile Canyon as EPA permitted outfall 03A025. It is recommended this outfall be re-routed to the sanitary sewer

pipe located in the northeast utility tunnel of building 3-16, if feasible. The EPA permit can then be deleted. A revised EPA form 2C is attached for the permitted outfall.

## 8.0 RECOMMENDATIONS FOR BUILDING 3-316

Table 5 is a list of the drains to the building outfalls and Figure 7 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendation.

### 8.1 Outfall 3-316-OPN-1

This outfall is from sanitary facilities and flows to the site sanitary sewer system. No chemicals are drained into any of the drains or fixtures. The air compressor located in room 103 has a bleed-off line which drains to floor drain 1FD2. It is recommended this bleed-off be containerized at the air compressor unit and the piping to the drain be removed. No permitting is required for this outfall and no EPA forms have been prepared.

### 8.2 Outfalls 3-316-OPN-2, 3-316-OPN-3, 3-316-OPN-4 and 3-316-OPN-5

These outfalls are fire water system drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### 8.3 Outfalls 3-316-OPN-6, 3-316-OPN-7 and 3-316-OPN-8

These outfalls are equipment exhaust vents which discharge to atmosphere next to the building. No piping changes or permitting are recommended. No EPA forms were prepared.

#### 8.4 Outfall 3-316-OPN-9

This outfall is from a trench drain located in test area #100 and has been plugged below grade just exterior of the building (according to the building manager, Bill Waganaar). It is recommended the trench drain 1TD1 be plugged. No permitting is required for this outfall and no EPA forms have been prepared.

#### 8.5 Outfall 3-316-OPN-10

This outfall drains water from an evaporative cooler to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

#### 8.6 Outfall 3-316-OPN-11

This outfall is a compressed air pressure reducing valve discharging to atmosphere next to the building. No permitting or changes are needed for this outfall and no EPA forms were completed.

### 9.0 RECOMMENDATIONS FOR BUILDING 3-1522

Table 6 is a list of the drains to the building outfalls and Figure 8 is a schematic of the building piping. The one building outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### 10.0 RECOMMENDATIONS FOR BUILDING 3-1538

Table 7 is a list of the drains to the building outfalls and Figure 9 is a schematic of the building piping. This one outfall drains condensed water from a mechanical cooling unit to daylight

next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

#### **11.0 RECOMMENDATIONS FOR BUILDING 3-1612**

Table 8 is a list of the drains to the building outfall 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.

##### **11.1 Outfall 3-1612-OPN-1**

This outfall is from sanitary facilities and flows into a sewage lift station which pumps into a sanitary sewer manhole. This manhole drains into the site sanitary sewer system. No chemicals are drained into any of the drains or fixtures. No permitting or changes are required for this outfall and no EPA forms have been prepared.

##### **11.2 Outfall 3-1612-OPN-2**

This outfall drains condensed water from an evaporative cooler to daylight next to the building. The outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

#### **12.0 RECOMMENDATIONS FOR BUILDING 3-1730**

Table 9 is a list of the drains to the building outfalls and Figure 11 is a schematic of the building piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### **13.0 RECOMMENDATIONS FOR BUILDING 3-1731**

Table 10 is a list of the drains to 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.

#### **13.1 Outfall 3-1731-OPN-1**

This outfall receives flow from one lavatory and one toilet and flows to a sewer manhole which drains to the site sanitary sewer system. No permitting or piping changes are recommended. No EPA forms were prepared.

#### **13.2 Outfall 3-1731-OPN-2**

This outfall drains condensed water from mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### **14.0 RECOMMENDATIONS FOR BUILDING 3-1734**

Table 11 is a list of the drains to the building outfalls and Figure 13 is a schematic of the building piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### **15.0 RECOMMENDATIONS FOR BUILDING 3-1762**

Table 12 is a list of the drains to the building outfall and Figure 14 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 pipe. The discussion below gives the reasoning for the recommendations.

#### 15.1 Outfall 3-1762-OPN-1

This outfall receives flow from two lavatories, two toilets, one countertop sink drain and flows to the site sanitary sewer system. No permitting or piping changes are recommended. No EPA forms were prepared.

#### 15.2 Outfall 3-1762-OPN-2

This outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

#### 15.3 Outfall 3-1762-OPN-3

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

### **16.0 RECOMMENDATIONS FOR BUILDING 3-1898**

Table 13 is a list of the drains to the building outfalls and Figure 15 is a schematic of the building piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### **17.0 RECOMMENDATIONS FOR BUILDING 3-2003**

Table 14 is a list of the drains to the building outfalls and Figure 16 is a schematic of the piping. The table lists the

chemicals are drained into any of the drains or fixtures. No permitting or changes are required for this outfall and no EPA forms have been prepared.

#### 18.2 Outfall 3-2004-OPN-2

This outfall drains condensed water from a mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

#### 18.3 Outfall 3-2004-OPN-3

This outfall discharges from a water heater pressure relief valve to daylight next to building. This outfall should be covered by an NOI. No permitting is required for this outfall and no EPA forms have been prepared.

#### 18.4 Outfall 3-2004-OPN-4

This outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### 19.0 RECOMMENDATIONS FOR BUILDING 3-2005

Table 16 is a list of drains to the building outfalls and Figure 16 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 recommendation.

### 19.1 Outfall 3-2005-OPN-1

This outfall drains condensed water from a mechanical heating/cooling unit to daylight next to building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### 19.2 Outfall 3-2005-OPN-2

This outfall discharges from a water heater pressure relief valve to daylight next to building. This outfall should be covered by an NOI. No permitting is required for this outfall and no EPA forms have been prepared.

### 19.3 Outfall 3-2005-OPN-3

This outfall is from a single sink drain and connects to the site sanitary sewer collection system via a connection to the sanitary system in building 3-2004. No changes or permitting are recommended and no EPA forms were prepared.

## 20.0 RECOMMENDATIONS FOR BUILDING 3-2006

Table 17 is a list of the drains to the building outfalls and Figure 17 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.

### 20.1 Outfall 3-2006-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the site sanitary sewer system. No chemicals are drained into any of the drains or fixtures. No permitting is required for this outfall and no EPA forms have been prepared.

## 20.2 Outfall 3-2006-OPN-2

This outfall drains condensed water from a packaged mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 20.3 Outfall 3-2006-OPN-3

The outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 20.4 Outfall 3-2006-OPN-4

This outfall is a fire water system drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## **21.0 RECOMMENDATIONS FOR BUILDING 3-2007**

Table 18 is a list of the drains to the building outfalls and Figure 17 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 recommendation.

### 21.1 Outfall 3-2007-OPN-1

This outfall is a fire water system drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. NO EPA forms were completed.

### 21.2 Outfall 3-2007-OPN-2

This outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No Piping changes are recommended. No EPA forms were completed.

### 21.3 Outfall 3-2007-OPN-3

This outfall drains condensed water from a packaged mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 22.0 RECOMMENDATIONS FOR BUILDING 3-2008

Table 19 is a list of the drains to the building outfalls and Figure 17 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.

### 22.1 Outfall 3-2008-OPN-1

This outfall receives flow from one countertop sink drain and one water fountain and flows to a sewer manhole which drains to site sanitary sewer system. No permitting or piping changes are recommended. No EPA forms were prepared.

### 22.2 Outfall 3-2008-OPN-2

This outfall discharges from a water heater pressure relief valve to daylight in the crawl space of the building. This outfall should be covered by an NOI. No changes are required for this outfall and no EPA forms have been prepared.

### 22.3 Outfall 3-2008-OPN-3

This outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were prepared.

### 22.4 Outfall 3-2008-OPN-4

This outfall drains condensed water from a packaged mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms are completed.

### 22.5 Outfall 3-2008-OPN-5

This outfall is a fire water system drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 23.0 RECOMMENDATIONS FOR BUILDING 3-2009

Table 20 is a list of the drains to the building outfalls and Figure 17 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.

### 23.1 Outfall 3-2009-OPN-1

This outfall receives flow from one fume hood cup drain and drains to the Radioactive Waste Treatment Plant located at TA-50. No piping changes are recommended. No EPA forms were prepared.

### 23.2 Outfall 3-2009-OPN-2

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the site sanitary sewer system. There is one emergency eye wash unit 1ED1 located in room 131 which currently drains to sanitary sewer. It is recommended the drain be re-routed to connect to the RLW outfall exiting this building. No permitting is required for this outfall and no EPA forms have been prepared.

### 23.3 Outfall 3-2009-OPN-3

This outfall discharges from a water heater pressure relief valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms have been prepared.

### 23.4 Outfall 3-2009-OPN-4

This outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### 23.5 Outfall 3-2009-OPN-5

This outfall drains condensed water from a packaged mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 24.0 RECOMMENDATIONS FOR BUILDING 3-2010

Table 21 is a list of the drains to the building outfall and Figure 17 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.

#### 24.1 Outfall 3-2010-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the site sanitary sewer system. There is one emergency eye wash unit 1ED1 located in room 147 which currently drains to sanitary sewer. It is recommended the drain be re-routed to connect to the RLW system piping exiting building TA-3-2009. No permitting is required for this outfall and no EPA forms have been prepared.

#### 24.2 Outfall 3-2010-OPN-2

This outfall discharges from a water heater pressure relief valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms have been prepared.

#### 24.3 Outfalls 3-2010-OPN-3, 3-2010-OPN-4, 3-2010-OPN-5 and 3-2010-OPN-6

These outfalls discharge nitrogen gas from nitrogen tank pressure regulating valves to atmosphere next to the building. These outfalls should be covered by an NOI. No permitting or piping changes are recommended. No EPA forms were completed.

#### 24.4 Outfalls 3-2010-OPN-7 and 3-2010-OPN-8

The outfalls drain condensed water from packaged mechanical heating/cooling units to daylight next to building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

24.5 Outfall 3-2010-OPN-9

This outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.



## 25.0 CONCLUSION

This document provides the information to characterize buildings 16, 65, 130, 208, 316, 477, 550, 1228, 1229, 1522, 1538, 1612, 1730, 1731, 1734, 1762, 1898, 1944, 1945, 1946, 1949, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2062, 2130, 2143 and 2164 of TA-3. Permit application forms have been completed for the following outfalls (Appendix 3).

Form 2C:

1. 3-208-OPN-1 (03A025)

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

Buildings that do not have any drains:

- |           |            |            |           |
|-----------|------------|------------|-----------|
| 1. 3-477  | 2. 3-550   | 3. 3-1228  | 4. 3-1229 |
| 5. 3-1944 | 6. 3-1945  | 7. 3-1946  | 8. 3-1949 |
| 9. 3-2062 | 10. 3-2130 | 11. 3-2164 |           |

Building that was relocated:

1. 3-2143

Discharges to the site sanitary sewer system:

- |                  |                  |                  |
|------------------|------------------|------------------|
| 1. 3-16-OPN-1    | 2. 3-16-OPN-2    | 3. 3-316-OPN-1   |
| 4. 3-316-OPN-9   | 5. 3-1612-OPN-1  | 6. 3-1731-OPN-1  |
| 7. 3-1762-OPN-1  | 8. 3-2003-OPN-1  | 9. 3-2004-OPN-1  |
| 10. 3-2006-OPN-1 | 11. 3-2008-OPN-1 | 12. 3-2009-OPN-2 |
| 13. 3-2010-OPN-1 |                  |                  |

Discharge to sanitary septic tank and seepage pit:

1. 3-130-OPN-1 (septic permit #TA-3-1484)

Discharges to the TA-50 Radioactive Waste Treatment Plant:

1. 3-16-OPN-3
2. 3-65-OPN-1
- 3-2009-OPN-1

Discharges from the fire system:

1. 3-16-OPN-5
2. 3-16-OPN-6
3. 3-16-OPN-7
4. 3-16-OPN-11
5. 3-16-OPN-12
6. 3-16-OPN-13
7. 3-16-OPN-14
8. 3-16-OPN-17
9. 3-16-OPN-18
10. 3-16-OPN-21
11. 3-16-OPN-22
12. 3-16-OPN-23
13. 3-16-OPN-24
14. 3-16-OPN-25
15. 3-16-OPN-33
16. 3-16-OPN-34
17. 3-316-OPN-2
18. 3-316-OPN-3
19. 3-316-OPN-4
20. 3-316-OPN-5
21. 3-2006-OPN-4
22. 3-2007-OPN-1
23. 3-2008-OPN-5

Discharges of condensed water:

1. 3-16-OPN-31
2. 3-16-OPN-32
3. 3-130-OPN-2
4. 3-316-OPN-10
5. 3-1522-OPN-1
6. 3-1538-OPN-1
7. 3-1612-OPN-2
8. 3-1730-OPN-1
9. 3-1731-OPN-2
10. 3-1734-OPN-1
11. 3-1762-OPN-2
12. 3-1898-OPN-1
13. 3-2003-OPN-2
14. 3-2004-OPN-2
15. 3-2005-OPN-1
16. 3-2006-OPN-2
17. 3-2007-OPN-3
18. 3-2008-OPN-4
19. 3-2009-OPN-5
20. 3-2010-OPN-7
21. 3-2010-OPN-8

Storm water discharges:

1. 3-16-OPN-4
2. 3-16-OPN-10
3. 3-16-OPN-15

Discharges from hot water heaters:

- |    |              |    |              |    |              |
|----|--------------|----|--------------|----|--------------|
| 1. | 3-1762-OPN-3 | 2. | 3-2003-OPN-3 | 3. | 3-2004-OPN-3 |
| 4. | 3-2005-OPN-2 | 5. | 3-2008-OPN-2 | 6. | 3-2009-OPN-3 |
| 7. | 3-2010-OPN-2 |    |              |    |              |

Discharges from backflow preventer:

- |    |              |    |              |    |              |
|----|--------------|----|--------------|----|--------------|
| 1. | 3-2004-OPN-4 | 2. | 3-2006-OPN-3 | 3. | 3-2007-OPN-2 |
| 4. | 3-2008-OPN-3 | 5. | 3-2009-OPN-4 | 6. | 3-2010-OPN-9 |

Discharges from equipment exhaust:

- |    |             |    |             |    |             |
|----|-------------|----|-------------|----|-------------|
| 1. | 3-16-OPN-9  | 2. | 3-16-OPN-16 | 3. | 3-16-OPN-19 |
| 4. | 3-16-OPN-29 | 5. | 3-316-OPN-6 | 6. | 3-316-OPN-7 |
| 7. | 3-316-OPN-8 |    |             |    |             |

Discharges from Nitrogen tank pressure relief valve:

- |    |              |    |              |    |              |
|----|--------------|----|--------------|----|--------------|
| 1. | 3-2010-OPN-3 | 2. | 3-2010-OPN-4 | 3. | 3-2010-OPN-5 |
| 4. | 3-2010-OPN-6 |    |              |    |              |

Discharge from sanitary sewer vents:

- |    |             |    |             |             |
|----|-------------|----|-------------|-------------|
| 1. | 3-16-OPN-26 | 2. | 3-16-OPN-27 | 3-16-OPN-28 |
|----|-------------|----|-------------|-------------|

Miscellaneous discharges:

- |    |              |    |             |    |             |
|----|--------------|----|-------------|----|-------------|
| 1. | 3-16-OPN-8   | 2. | 3-16-OPN-20 | 3. | 3-16-OPN-30 |
| 4. | 3-316-OPN-11 |    |             |    |             |

Recommended corrective actions are outlined in tables 1 through 22 as well as in the above text. Corrective actions should be performed as soon as practicable to minimize the chance of unpermitted discharge of pollutants.



## TABLE 1: TA 3-16 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-0016-OPN-01 SANITARY	1FD1	RESTROOM	114A	NO CHANGE	NO
	1FD2	RESTROOM	114B	NO CHANGE	
	1LV1	RESTROOM	114A	NO CHANGE	
	1LV2	RESTROOM	114B	NO CHANGE	
	1SD01	LAB	114	NO CHANGE	
	1SD02	LAB	114C	NO CHANGE	
	1SD03	BREAK ROOM	116	NO CHANGE	
	1SD04	LAB	120	REMOVE	
	1SD05	LAB	120	REMOVE	
	1SD06	LAB	122	REMOVED	
	1SD07	LAB	124	REMOVED	
	1SD08	LAB	126	NO CHANGE	
	1SD09	LAB	128	NO CHANGE	
	1SD10	LAB	123	NO CHANGE	
	1TL1	RESTROOM	114A	NO CHANGE	
	1TL2	RESTROOM	114B	NO CHANGE	
	1TL3	RESTROOM	114B	NO CHANGE	
	1UR1	RESTROOM	114B	NO CHANGE	
1WF1	CORRIDOR	100	NO CHANGE		
3-0016-OPN-02 SANITARY	1CSD6	VERTICAL ACCELERATOR ROOM	170	NO CHANGE	NO
	1FD3	MECHANICAL ROOM	150	NO CHANGE	
	1FD4	MECHANICAL ROOM	150	NO CHANGE	
	1FD5	MECHANICAL ROOM	150	NO CHANGE	
	1FS1	MECHANICAL ROOM	150	NO CHANGE	
	1FS2	MECHANICAL ROOM	150	NO CHANGE	
	1FS3	MECHANICAL ROOM	150	NO CHANGE	
	1FS4	MECHANICAL ROOM	150	NO CHANGE	
	1FS5	MECHANICAL ROOM	150	NO CHANGE	
	1FS6	MECHANICAL ROOM	150	NO CHANGE	
	1WF2	CONTROL ROOM	140	REMOVE	
	1WF3	LAB	147	REMOVED	
	2CSD1	VERTICAL ACCELERATOR ROOM	270	REPIPE TO RLW	
	BCSD07	JANITOR'S CLOSET	42	REPIPE TO RLW	
	BCSD08	MACHINE ROOM	62	REPIPE TO RLW	
	BCSD09	VERTICAL ACCELERATOR ROOM	70	REPIPE TO RLW	
	BCSD10	MACHINE ROOM	62	REPIPE TO RLW	
	BCSD11	REACTION ROOM	64	REPIPE TO RLW	
BCSD12	SPECTROMETER ROOM	66	REPIPE TO RLW		
BCSD13	SPECTROMETER ROOM	66	REMOVED		
BCSD14	NEUTRON ROOM	67	REPIPE TO RLW		

# TABLE 1: TA 3-16 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-0016-OPN-02 CONT.	BCSD15	LEAD STORAGE ROOM	69	REPIPE TO RLW	NO
	BCTD1	VERTICAL ACCELERATOR ROOM	70	REPIPE TO RLW	
	BCTD2	VERTICAL ACCELERATOR ROOM	70	REPIPE TO RLW	
	BFD01	UTILITY TUNNEL	21	REPIPE TO RLW	
	BFD02	UTILITY TUNNEL	21	REPIPE TO RLW	
	BFD03	UTILITY TUNNEL	21	REPIPE TO RLW	
	BFD04	UTILITY TUNNEL	21	REPIPE TO RLW	
	BFD05	BATHROOM	44	REPIPE TO RLW	
	BFD06	JANITOR'S CLOSET	42	REPIPE TO RLW	
	BFD07	MECHANICAL ROOM	50	NO CHANGE	
	BFD08	MECHANICAL ROOM	50	NO CHANGE	
	BFD09	MECHANICAL ROOM	50	NO CHANGE	
	BFD10	MECHANICAL ROOM	50	NO CHANGE	
	BFS1	UTILITY/STORAGE ROOM	41	REPIPE TO RLW	
	BFS2	MECHANICAL ROOM	50	NO CHANGE	
	BLV1	BATHROOM	44	REPIPE TO RLW	
	BLV2	BATHROOM	44	REPIPE TO RLW	
	BSH1	BATHROOM	44	REPIPE TO RLW	
	BLS1	MECHANICAL ROOM	50	REPIPE TO RLW	
	BTL1	BATHROOM	44	REMOVE	
	BUR1	BATHROOM	44	REMOVE	
	BWF1	MACHINE ROOM	62	REMOVED	
	BWF2	MACHINE ROOM	62	REMOVED	
	BWF3	CORRIDOR	65	REMOVED	
	BWF4	APPARATUS ROOM	40	REMOVED	
	SBCFD1	UTILITY TUNNEL	3	REPIPE TO RLW	
	SBCFD2	UTILITY TUNNEL	3	REPIPE TO RLW	
	SBCFD3	UTILITY TUNNEL	3	REPIPE TO RLW	
	SBCFD4	UTILITY TUNNEL	2	REPIPE TO RLW	
	SBCFD5	UTILITY TUNNEL	2	REPIPE TO RLW	
SBCSD1	UTILITY TUNNEL	3	REPIPE TO RLW		
SBSP1	UTILITY TUNNEL	3	REPIPE TO RLW		

# TABLE 1: TA 3-16 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-0016-OPN-03 RLW	1CCD1	LAB	119	NO CHANGE	NO
	1CFS1	MECHANICAL ROOM	150	NO CHANGE	
	1CFS2	MECHANICAL ROOM	150	NO CHANGE	
	1CSD1	LAB	119	NO CHANGE	
	1CSD2	LAB	119A	NO CHANGE	
	1CSD3	DARK ROOM	119B	NO CHANGE	
	1CSD4	LAB	119	NO CHANGE	
	1CSD5	LAB	147	NO CHANGE	
	BCES1	TARGET PREPERATION	45	NO CHANGE	
	BCFS1	MECHANICAL ROOM	50	NO CHANGE	
	BCFS2	MECHANICAL ROOM	50	NO CHANGE	
	BCSD1	WORK ROOM	48	NO CHANGE	
	BCSD2	TARGET PREPERATION	45	NO CHANGE	
	BCSD3	TARGET PREPERATION	45	NO CHANGE	
	BCSD5	ASSEMBLY	47	NO CHANGE	
BCSD6	ASSEMBLY	47	NO CHANGE		
3-0016-OPN-04	BCFD10	GENERATOR ROOM	68	PLUG	NO
	RD1	ROOF	N/A	NO CHANGE	
	RD2	ROOF	N/A	NO CHANGE	
	RD3	ROOF	N/A	NO CHANGE	
3-0016-OPN-05	N/A	MECHANICAL ROOM	50	NOI	NO
3-0016-OPN-06	N/A	AUXILIARY APPARATUS ROOM	40	NOI	NO
3-0016-OPN-07	N/A	LEAD STORAGE ROOM	69	NOI	NO
3-0016-OPN-08	N/A	LEAD STORAGE ROOM	69	NO CHANGE	NO
3-0016-OPN-09	N/A	LEAD STORAGE ROOM	69	REMOVE	NO
3-0016-OPN-10	RD5	ROOF	N/A	NO CHANGE	NO
3-0016-OPN-11	N/A	VERTICAL ACCELERATOR ROOM	70	NOI	NO
3-0016-OPN-12	N/A	VERTICAL ACCELERATOR ROOM	70	NOI	NO
3-0016-OPN-13	N/A	VERTICAL ACCELERATOR ROOM	70	NOI	NO
3-0016-OPN-14	N/A	VERTICAL ACCELERATOR ROOM	70	NOI	NO
3-0016-OPN-15	RD4	ROOF	N/A	NO CHANGE	NO
3-0016-OPN-16	N/A	VERTICAL ACCELERATOR ROOM	70	NO CHANGE	NO
3-0016-OPN-17	N/A	VERTICAL ACCELERATOR ROOM	70	NOI	NO
3-0016-OPN-18	N/A	VERTICAL ACCELERATOR ROOM	70	NOI	NO
3-0016-OPN-19	N/A	VERTICAL ACCELERATOR ROOM	70	NO CHANGE	NO
3-0016-OPN-20	N/A	VERTICAL ACCELERATOR ROOM	70	NOI	NO
3-0016-OPN-21	N/A	EMERGENCY ESCAPE TUNNEL	59	NOI	NO
3-0016-OPN-22	N/A	UTILITY TUNNEL	21	NOI	NO
3-0016-OPN-23	N/A	UTILITY TUNNEL	21	NOI	NO
3-0016-OPN-24	N/A	UTILITY TUNNEL	21	NOI	NO

TABLE 1: TA 3-16 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-0016-OPN-25	N/A	OFFICE	105	NOI	NO
3-0016-OPN-26	N/A	LAB	147	NO CHANGE	NO
3-0016-OPN-27	N/A	MECHANICAL ROOM	150	NO CHANGE	NO
3-0016-OPN-28	N/A	MECHANICAL ROOM	150	NO CHANGE	NO
3-0016-OPN-29	N/A	VERTICAL ACCELERATOR ROOM	170	NO CHANGE	NO
3-0016-OPN-30	N/A	VERTICAL ACCELERATOR ROOM	270	NOI	NO
3-0016-OPN-31	N/A	VERTICAL ACCELERATOR ROOM	370	NOI	NO
3-0016-OPN-32	N/A	VERTICAL ACCELERATOR ROOM	370	NOI	NO
3-0016-OPN-33	N/A	OFFICE	120	NOI	NO
3-0016-OPN-34	N/A	OFFICE	110	NOI	NO

TABLE 2: TA 3-65 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-0065-OPN-1 RLW	1FD1	SOURCE STORAGE VAULT	N/A	PLUGGED	NO
	1FD2	WORK ROOM	N/A	PLUGGED	
	1FD3	UTILITY ROOM	N/A	NO CHANGE	
	1FD4	LEAK TEST ROOM	N/A	PLUGGED	
	1FD5	CART STORAGE ROOM	N/A	NO CHANGE	
	1FD6	CHANGE ROOM	N/A	NO CHANGE	
	1FD7	CHANGE ROOM	N/A	NO CHANGE	
	1FD8	STORAGE	N/A	PLUG	
	1FD9	STORAGE	N/A	PLUG	
	1LV1	RESTROOM	N/A	REMOVE	
	1SD1	WORK ROOM	N/A	REMOVE	
	1SD2	CHANGE ROOM	N/A	REMOVED	
	1SD3	CHANGE ROOM	N/A	NO CHANGE	
	1TL1	RESTROOM	N/A	REMOVED	

TABLE 3: TA 3-130 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-0130-OPN-1 SEPTIC TANK LA-11	1FD1	WORK ROOM	N/A	REPIPE TO 01S	NO
	1FD2	RESTROOM	102	REPIPE TO 01S	
	1FD3	WORK ROOM	100	REPIPE TO 01S	
	1LV1	RESTROOM	102	REPIPE TO 01S	
	1SD1	RESTROOM	102	REPIPE TO 01S	
	1TL1	RESTROOM	102	REPIPE TO 01S	
	1UR1	RESTROOM	102	REPIPE TO 01S	
	1WF1	WORK ROOM	100	REPIPE TO 01S	
3-0130-OPN-2	N/A	EXTERIOR	N/A	NOI	NO

TABLE 4: TA 3-208 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-0208-OPN-1 03A025	1FD1	MECHANICAL ROOM	N/A	REPIPE TO S.S.	YES
	1FD2	MECHANICAL ROOM	N/A	CONTAIN/ELIMIN. PERMIT	
	1FS1	MECHANICAL ROOM	N/A	REPIPE TO S.S.	

TABLE 5: TA 3-316 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-0316-OPN-01 SANITARY	1FD1	MECHANICAL ROOM	103	NO CHANGE	NO
	1FD2	MECHANICAL ROOM	103	NO CHANGE	
	1FD3	MECHANICAL ROOM	103	NO CHANGE	
	1FD4	RESTROOM	102	NO CHANGE	
	1LV1	RESTROOM	102	NO CHANGE	
	1LV2	RESTROOM	102	NO CHANGE	
	1SD1	MECHANICAL ROOM	103	NO CHANGE	
	1TL1	RESTROOM	102	NO CHANGE	
	1TL2	RESTROOM	102	NO CHANGE	
	1UR1	RESTROOM	102	NO CHANGE	
	1WF1	TEST AREA	100	NO CHANGE	

**TABLE 5: TA 3-316 DRAIN SUMMARY**

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-0316-OPN-02	N/A	MECHANICAL ROOM	103	NOI	NO
3-0316-OPN-03	N/A	MECHANICAL ROOM	103	NOI	NO
3-0316-OPN-04	N/A	MECHANICAL ROOM	103	NOI	NO
3-0316-OPN-05	N/A	MECHANICAL ROOM	103	NOI	NO
3-0316-OPN-06	N/A	TEST AREA	100	NO CHANGE	NO
3-0316-OPN-07	N/A	TEST AREA	100	NO CHANGE	NO
3-0316-OPN-08	N/A	TEST AREA	100	NO CHANGE	NO
3-0316-OPN-09 SANITARY	1TD1	TEST AREA	100	PLUG	NO
3-0316-OPN-10	N/A	TEST AREA	100	NOI	NO
3-0316-OPN-11	N/A	TEST AREA	100	NO CHANGE	NO

**TABLE 6: TA 3-1522 DRAIN SUMMARY**

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1522-OPN-1	N/A	EXTERIOR	N/A	NOI	NO

**TABLE 7: TA 3-1538 DRAIN SUMMARY**

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1538-OPN-1	N/A	EXTERIOR	N/A	NOI	NO

**TABLE 8: TA 3-1612 DRAIN SUMMARY**

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1612-OPN-1 SANITARY	1LV1	RESTROOM	105	NO CHANGE	NO
	1LV2	RESTROOM	109	NO CHANGE	
	1SD1	JANITOR'S CLOSET	N/A	NO CHANGE	
	1TL1	RESTROOM	105	NO CHANGE	
	1TL2	RESTROOM	109	NO CHANGE	
	1UR1	RESTROOM	105	NO CHANGE	
	1WF1	CORRIDOR	100	NO CHANGE	
3-1612-OPN-2	N/A	ROOF	N/A	NOI	NO

TABLE 9: TA 3-1730 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1730-OPN-1	N/A	EXTERIOR	N/A	NOI	NO

TABLE 10: TA 3-1731 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1731-OPN-1 SANITARY	1LV1	RESTROOM	101	NO CHANGE	NO
	1TL1	RESTROOM	101	NO CHANGE	
3-1731-OPN-2	N/A	EXTERIOR	N/A	NOI	NO

TABLE 11: TA 3-1734 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1734-OPN-1	N/A	EXTERIOR	N/A	NOI	NO

TABLE 12: TA 3-1762 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1762-OPN-1 SANITARY	1LV1	RESTROOM	102B	NO CHANGE	NO
	1LV2	RESTROOM	102C	NO CHANGE	
	1SD1	BREAK AREA	100	NO CHANGE	
	1TL1	RESTROOM	102B	NO CHANGE	
	1TL2	RESTROOM	102C	NO CHANGE	
3-1762-OPN-2	N/A	EXTERIOR	N/A	NOI	NO
3-1762-OPN-3	WH	UTILITY CLOSET	102A	NOI	NO

TABLE 13: TA 3-1898 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-1898-OPN-1	N/A	EXTERIOR	N/A	NOI	NO

**TABLE 14: TA 3-2003 DRAIN SUMMARY**

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-2003-OPN-1 SANITARY	1SD1	BREAK ROOM	109	NO CHANGE	NO
3-2003-OPN-2	N/A	MECHANICAL ROOM	135	NOI	NO
3-2003-OPN-3	N/A	MECHANICAL ROOM	135	NOI	NO

**TABLE 15: TA 3-2004 DRAIN SUMMARY**

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-2004-OPN-1 SANITARY	1LV1	BATHROOM	115	NO CHANGE	NO
	1LV2	BATHROOM	117	NO CHANGE	
	1SD1	JANITOR'S CLOSET	118	NO CHANGE	
	1SH1	BATHROOM	115	NO CHANGE	
	1SH2	BATHROOM	117	NO CHANGE	
	1TL1	BATHROOM	115	NO CHANGE	
	1TL2	BATHROOM	117	NO CHANGE	
	1UR1	BATHROOM	117	NO CHANGE	
3-2004-OPN-2	N/A	MECHANICAL ROOM	136	NOI	NO
3-2004-OPN-3	N/A	MECHANICAL ROOM	136	NOI	NO
3-2004-OPN-4	N/A	MECHANICAL ROOM	136	NOI	NO

**TABLE 16: TA 3-2005 DRAIN SUMMARY**

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-2005-OPN-1	N/A	MECHANICAL ROOM	137	NOI	NO
3-2005-OPN-2	N/A	MECHANICAL ROOM	137	NOI	NO
3-2005-OPN-3 SANITARY	1SD1	CORRIDOR	100B	NO CHANGE	NO

TABLE 17: TA 3-2006 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-2006-OPN-1 SANITARY	1LV1	RESTROOM	105	NO CHANGE	NO
	1LV2	RESTROOM	105	NO CHANGE	
	1LV3	RESTROOM	107	NO CHANGE	
	1LV4	RESTROOM	107	NO CHANGE	
	1SD1	BREAK AREA	111	NO CHANGE	
	1TL1	RESTROOM	105	NO CHANGE	
	1TL2	RESTROOM	105	NO CHANGE	
	1TL3	RESTROOM	107	NO CHANGE	
	1TL4	RESTROOM	107	NO CHANGE	
	1WF1	CORRIDOR	100A	NO CHANGE	
3-2006-OPN-2	N/A	EXTERIOR	N/A	NOI	NO
3-2006-OPN-3	N/A	MECHANICAL ROOM	160	NOI	NO
3-2006-OPN-4	N/A	OFFICE	102	NOI	NO

TABLE 18: TA 3-2007 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-2007-OPN-1	N/A	OFFICE	115	NOI	NO
3-2007-OPN-2	N/A	MECHANICAL ROOM	159	NOI	NO
3-2007-OPN-3	N/A	EXTERIOR	N/A	NOI	NO

TABLE 19: TA 3-2008 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-2008-OPN-1 SANITARY	1SD1	OFFICE AREA	130	NO CHANGE	NO
	1WF1	CORRIDOR	100F	NO CHANGE	
3-2008-OPN-2	1WH1	OFFICE AREA (ABOVE CEILING)	130	NOI	NO
3-2008-OPN-3	N/A	MECHANICAL ROOM	158	NOI	NO
3-2008-OPN-4	N/A	EXTERIOR	N/A	NOI	NO
3-2008-OPN-5	N/A	CORRIDOR	100F	NOI	NO

TABLE 20: TA 3-2009 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-2009-OPN-1 RLW	1CD1	WORK ROOM	131	NO CHANGE	NO
3-2009-OPN-2 SANITARY	1ED1	WORK ROOM	131	REPIPE TO RLW	NO
	1LV1	BATHROOM	136	NO CHANGE	
	1LV2	BATHROOM	136	NO CHANGE	
	1LV3	BATHROOM	138	NO CHANGE	
	1LV4	BATHROOM	138	NO CHANGE	
	1SD1	DARKROOM	135A	NO CHANGE	
	1SD2	DARKROOM	135A	NO CHANGE	
	1SD3	DARKROOM	135A	NO CHANGE	
	1SH1	BATHROOM	136	NO CHANGE	
	1SH2	BATHROOM	138	NO CHANGE	
	1TL1	BATHROOM	136	NO CHANGE	
	1TL2	BATHROOM	136	NO CHANGE	
	1TL3	BATHROOM	138	NO CHANGE	
	1TL4	BATHROOM	138	NO CHANGE	
1WF1	CORRIDOR	100H	NO CHANGE		
3-2009-OPN-3	N/A	DARKROOM	135A	NOI	NO
3-2009-OPN-4	N/A	MECHANICAL ROOM	157	NOI	NO
3-2009-OPN-5	N/A	EXTERIOR	N/A	NOI	NO

TABLE 21: TA 3-2010 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
3-2010-OPN-1 SANITARY	1ED1	SPECTROSCOPY ROOM	147	REPIPE TO RLW	NO
	1SD1	BREAK ROOM	145	NO CHANGE	
	1SD2	JANITOR'S CLOSET	145A	NO CHANGE	
3-2010-OPN-2	1WH1	JANITOR'S CLOSET	145A	NOI	NO
3-2010-OPN-3	N/A	EXTERIOR LOADING DOCK	N/A	NOI	NO
3-2010-OPN-4	N/A	EXTERIOR LOADING DOCK	N/A	NOI	NO
3-2010-OPN-5	N/A	EXTERIOR LOADING DOCK	N/A	NOI	NO
3-2010-OPN-6	N/A	EXTERIOR LOADING DOCK	N/A	NOI	NO
3-2010-OPN-7	N/A	EXTERIOR	N/A	NOI	NO
3-2010-OPN-8	N/A	EXTERIOR	N/A	NOI	NO
3-2010-OPN-9	N/A	MECHANICAL ROOM	156	NOI	NO

## TABLE 22

### NON DRAIN RECOMMENDATIONS

BUILDING NUMBER	ROOM OR LOCATION	RECOMMENDATION
16	EXTERIOR	SECONDARY CONTAINMENT FOR TRANSFORMER
16	70	CONTAINMENT FOR AIR COMPRESSOR, VACUUM PUMP AND AIR DRYER
130	ALL	DELETE SEPTIC SYSTEM AND CONNECT DRAINS TO OIS SYSTEM
ALL	ALL SANITARY SINKS	PROVIDE "NO CHEMICALS IN DRAIN" SIGNS

**TABLE 23**  
**SUMMARY OF ABBREVIATIONS**

ABBREVIATION	MEANING
A/C	AIR CONDITIONING
AD	AREA DRAIN
BFP	BACK FLOW PREVENTER
CCD	CONTAMINATED CUP DRAIN
CD	CUP DRAIN
CES	CONTAMINATION EMER. SHOWER
CFS	CONTAMINATED FLOOR SINK
CLV	CONTAMINATED LAVATORY
CSD	CONTAMINATED SINK
CSH	CONTAMINATED SHOWER
CTD	CONTAMINATED TRENCH DRAIN
EC	EVAPORATIVE COOLER
ED	EMERGENCY EYE WASH
FD	FLOOR DRAIN
FS	FLOOR SINK
IM	ICE MAKER
LV	LAVATORY
MH	MANHOLE
PRV	PRESSURE RELIEF VALVE
RLW	RADIOACTIVE LIQUID WASTE
RD	ROOF DRAIN
SD	SINK DRAIN
SH	SHOWER
SLS	SANITARY SEWAGE LIFT STATION
SP	SUMP PUMP
SS	SANITARY SEWER
TD	TRENCH DRAIN
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN
WH	WATER HEATER



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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	16	3-0016-OPN-01	01S/SWSC	1FD1	114A	RESTROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-01	01S/SWSC	1FD2	114B	RESTROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-01	01S/SWSC	1LV1	114A	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	16	3-0016-OPN-01	01S/SWSC	1LV2	114B	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	16	3-0016-OPN-01	01S/SWSC	1SD01	114	LAB		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-01	01S/SWSC	1SD02	114C	LAB		5 DAYS A WEEK	No	SERVICE SINK
3	16	3-0016-OPN-01	01S/SWSC	1SD03	116	BREAK ROOM		5 DAYS A WEEK	No	COUNTERTOP SINK
3	16	3-0016-OPN-01	01S/SWSC	1SD04	120	LAB		NO FLOW	No	SINK DRAIN (PLUGGED)
3	16	3-0016-OPN-01	01S/SWSC	1SD05	120	LAB		NO FLOW	No	SINK DRAIN (PLUGGED)
3	16	3-0016-OPN-01	01S/SWSC	1SD06	122	LAB		NO FLOW	No	SINK DRAIN (REMOVED)
3	16	3-0016-OPN-01	01S/SWSC	1SD07	124	LAB		NO FLOW	No	SINK DRAIN (REMOVED)
3	16	3-0016-OPN-01	01S/SWSC	1SD08	126	LAB		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-01	01S/SWSC	1SD09	128	LAB		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-01	01S/SWSC	1SD10	123	LAB		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-01	01S/SWSC	1TL1	114A	RESTROOM		5 DAYS A WEEK	No	TOILET
3	16	3-0016-OPN-01	01S/SWSC	1TL2	114B	RESTROOM		5 DAYS A WEEK	No	TOILET
3	16	3-0016-OPN-01	01S/SWSC	1TL3	114B	RESTROOM		5 DAYS A WEEK	No	TOILET
3	16	3-0016-OPN-01	01S/SWSC	1UR1	114B	RESTROOM		5 DAYS A WEEK	No	URINAL
3	16	3-0016-OPN-01	01S/SWSC	1WF1	100	CORRIDOR		5 DAYS A WEEK	No	DRINKING FOUNTAIN
3	16	3-0016-OPN-02	01S/SWSC	1CSD6	170	VERTICAL ACCELERATOR		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-02	01S/SWSC	1FD3	150	MECHANICAL ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	1FD4	150	MECHANICAL ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	1FD5	150	MECHANICAL ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	1FS1	150	MECHANICAL ROOM		FLOW IS NIL	No	WATER HEATER RELIEF VALVE
3	16	3-0016-OPN-02	01S/SWSC	1FS2	150	MECHANICAL ROOM		FLOW IS NIL	No	WATER FILTER DRAIN
3	16	3-0016-OPN-02	01S/SWSC	1FS3	150	MECHANICAL ROOM		FLOW IS NIL	No	CHILLED WATER DRAIN
3	16	3-0016-OPN-02	01S/SWSC	1FS4	150	MECHANICAL ROOM		FLOW IS NIL	No	TREATED COOLING WATER
3	16	3-0016-OPN-02	01S/SWSC	1FS5	150	MECHANICAL ROOM		FLOW IS NIL	No	PRESS. RELIEF/STEAM TRAP DRAIN
3	16	3-0016-OPN-02	01S/SWSC	1FS6	150	MECHANICAL ROOM		FLOW IS NIL	No	EXPANSION TANK/WATER DRAINS
3	16	3-0016-OPN-02	01S/SWSC	1WF2	140	CONTROL ROOM		5 DAYS A WEEK	No	DRINKING FOUNTAIN
3	16	3-0016-OPN-02	01S/SWSC	1WF3	147	LAB		NO FLOW	No	DRINKING FOUNTAIN (REMOVED)
3	16	3-0016-OPN-02	01S/SWSC	2CSD1	270	VERTICAL ACCELERATOR		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-02	01S/SWSC	BCSD07	42	JANITOR'S CLOSET		5 DAYS A WEEK	No	SERVICE SINK

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	16	3-0016-OPN-02	01S/SWSC	BCSD08	62	MACHINE ROOM		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-02	01S/SWSC	BCSD09	70	VERTICAL ACCELERATOR		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-02	01S/SWSC	BCSD10	62	MACHINE ROOM		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-02	01S/SWSC	BCSD11	64	REACTION ROOM		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-02	01S/SWSC	BCSD12	66	SPECTROMETER ROOM		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-02	01S/SWSC	BCSD13	66	SPECTROMETER ROOM		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-02	01S/SWSC	BCSD14	67	NEUTRON ROOM		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-02	01S/SWSC	BCSD15	69	LEAD STORAGE ROOM		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-02	01S/SWSC	BCTD1	70	VERTICAL ACCELERATOR		FLOW IS NIL	No	FLOOR WASHINGS/CONDENSED WTR
3	16	3-0016-OPN-02	01S/SWSC	BCTD2	70	VERTICAL ACCELERATOR		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	BFD01	21	UTILITY TUNNEL		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	BFD02	21	UTILITY TUNNEL		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	BFD03	21	UTILITY TUNNEL		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	BFD04	21	UTILITY TUNNEL		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	BFD05	44	BATHROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	BFD06	42	JANITOR'S CLOSET		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	BFD07	50	MECHANICAL ROOM		FLOW IS NIL	No	BACKFLOW PREVENTER/COND. WTR
3	16	3-0016-OPN-02	01S/SWSC	BFD08	50	MECHANICAL ROOM		FLOW IS NIL	No	HVAC PLENUM DRAIN
3	16	3-0016-OPN-02	01S/SWSC	BFD09	50	MECHANICAL ROOM		FLOW IS NIL	No	HVAC FILTER PLENUM DRAIN
3	16	3-0016-OPN-02	01S/SWSC	BFD10	50	MECHANICAL ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	BFS1	41	UTILITY/STORAGE ROOM		FLOW IS NIL	No	WATER BACKFLOW PREVENTER
3	16	3-0016-OPN-02	01S/SWSC	BFS2	50	MECHANICAL ROOM		FLOW IS NIL	No	TREATED COOLING WATER
3	16	3-0016-OPN-02	01S/SWSC	BLV1	44	BATHROOM		5 DAYS A WEEK	No	LAVATORY
3	16	3-0016-OPN-02	01S/SWSC	BLV2	44	BATHROOM		5 DAYS A WEEK	No	LAVATORY
3	16	3-0016-OPN-02	01S/SWSC	BSH1	44	BATHROOM		5 DAYS A WEEK	No	SHOWER
3	16	3-0016-OPN-02	01S/SWSC	BSLS1	50	MECHANICAL ROOM		5 DAYS A WEEK	No	SEWAGE LIFT STATION
3	16	3-0016-OPN-02	01S/SWSC	BTL1	44	BATHROOM		5 DAYS A WEEK	No	TOILET
3	16	3-0016-OPN-02	01S/SWSC	BUR1	44	BATHROOM		5 DAYS A WEEK	No	URINAL
3	16	3-0016-OPN-02	01S/SWSC	BWF1	62	MACHINE ROOM		NO FLOW	No	DRINKING FOUNTAIN (REMOVED)
3	16	3-0016-OPN-02	01S/SWSC	BWF2	62	MACHINE ROOM		NO FLOW	No	DRINKING FOUNTAIN (REMOVED)
3	16	3-0016-OPN-02	01S/SWSC	BWF3	65	CORRIDOR		NO FLOW	No	DRINKING FOUNTAIN (REMOVED)
3	16	3-0016-OPN-02	01S/SWSC	BWF4	40	APPARATUS ROOM		NO FLOW	No	DRINKING FOUNTAIN (REMOVED)
3	16	3-0016-OPN-02	01S/SWSC	SBCFD1	3	UTILITY TUNNEL		FLOW IS NIL	No	FLOOR WASHINGS

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	16	3-0016-OPN-02	01S/SWSC	SBCFD2	3	UTILITY TUNNEL		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	SBCFD3	3	UTILITY TUNNEL		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	SBCFD4	2	UTILITY TUNNEL		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	SBCFD5	2	UTILITY TUNNEL		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-02	01S/SWSC	SBCSD1	3	UTILITY TUNNEL		5 DAYS A WEEK	No	SERVICE SINK
3	16	3-0016-OPN-02	01S/SWSC	SBSP1	3	UTILITY TUNNEL		5 DAYS A WEEK	No	SUMP PUMP
3	16	3-0016-OPN-03	RLW	1CCD1	119	LAB		5 DAYS A WEEK	No	FILM DEVELOPER RINSE WATER
3	16	3-0016-OPN-03	RLW	1CFS1	150	MECHANICAL ROOM		FLOW IS NIL	No	CONDENSED WATER DRAIN
3	16	3-0016-OPN-03	RLW	1CFS2	150	MECHANICAL ROOM		FLOW IS NIL	No	RAD. PIPE STRAINER DISCHARGE
3	16	3-0016-OPN-03	RLW	1CSD1	119	LAB		5 DAYS A WEEK	No	PHOTO RINSE
3	16	3-0016-OPN-03	RLW	1CSD2	119A	LAB		5 DAYS A WEEK	No	PHOTO RINSE
3	16	3-0016-OPN-03	RLW	1CSD3	119B	DARK ROOM		5 DAYS A WEEK	No	PHOTO RINSE
3	16	3-0016-OPN-03	RLW	1CSD4	119	LAB		5 DAYS A WEEK	No	PHOTO RINSE
3	16	3-0016-OPN-03	RLW	1CSD5	147	LAB		5 DAYS A WEEK	No	PHOTO RINSE
3	16	3-0016-OPN-03	RLW	BCES1	45	TARGET PREPERATION		FLOW IS NIL	No	EMERGENCY SHOWER
3	16	3-0016-OPN-03	RLW	BCFS1	50	MECHANICAL ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-03	RLW	BCFS2	50	MECHANICAL ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-03	RLW	BCSD1	48	WORK ROOM		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-03	RLW	BCSD2	45	TARGET PREPERATION		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-03	RLW	BCSD3	45	TARGET PREPERATION		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-03	RLW	BCSD5	47	ASSEMBLY		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-03	RLW	BCSD6	47	ASSEMBLY		5 DAYS A WEEK	No	HAND WASHING
3	16	3-0016-OPN-04	DAYLIGHT	BCFD10	68	GENERATOR ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	16	3-0016-OPN-04	DAYLIGHT	RD1	N/A	ROOF		MOSTLY DURING SU	Yes	STORM DRAIN
3	16	3-0016-OPN-04	DAYLIGHT	RD2	N/A	ROOF		MOSTLY DURING SU	Yes	STORM DRAIN
3	16	3-0016-OPN-04	DAYLIGHT	RD3	N/A	ROOF		MOSTLY DURING SU	Yes	STORM DRAIN
3	16	3-0016-OPN-05	DAYLIGHT	N/A	50	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-06	DAYLIGHT	N/A	40	AUXILIARY APPARATUS R		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-07	DAYLIGHT	N/A	69	LEAD STORAGE ROOM		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-08	N/A	N/A	69	LEAD STORAGE ROOM		NO FLOW	No	ELECTRICAL CONDUIT (ABANDONED)
3	16	3-0016-OPN-09	ATMOSPHERE	N/A	69	LEAD STORAGE ROOM		NO FLOW	No	EQUIP. EXHAUST VENT
3	16	3-0016-OPN-10	DAYLIGHT	RD5	N/A	ROOF		MOSTLY DURING SU	Yes	STORM DRAIN
3	16	3-0016-OPN-11	DAYLIGHT	N/A	70	VERTICAL ACCELERATOR		FLOW IS NIL	No	FIRE LINE DRAIN

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	16	3-0016-OPN-12	DAYLIGHT	N/A	70	VERTICAL ACCELERATOR		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-13	DAYLIGHT	N/A	70	VERTICAL ACCELERATOR		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-14	DAYLIGHT	N/A	70	VERTICAL ACCELERATOR		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-15	DAYLIGHT	RD4	N/A	ROOF		MOSTLY DURING SU	Yes	STORM DRAIN
3	16	3-0016-OPN-16	ATMOSPHERE	N/A	70	VERTICAL ACCELERATOR		NO FLOW	No	EQUIP. EXHAUST VENT
3	16	3-0016-OPN-17	DAYLIGHT	N/A	70	VERTICAL ACCELERATOR		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-18	DAYLIGHT	N/A	70	VERTICAL ACCELERATOR		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-19	ATMOSPHERE	N/A	70	VERTICAL ACCELERATOR		NO FLOW	No	AIR DRYER EXHAUST VENT
3	16	3-0016-OPN-20	DAYLIGHT	N/A	70	VERTICAL ACCELERATOR		FLOW IS NIL	No	WATER LINE DRAIN
3	16	3-0016-OPN-21	DAYLIGHT	N/A	59	EMERG. ESCAPE TUNNEL		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-22	DAYLIGHT	N/A	21	UTILITY TUNNEL		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-23	DAYLIGHT	N/A	21	UTILITY TUNNEL		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-24	DAYLIGHT	N/A	21	UTILITY TUNNEL		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-25	DAYLIGHT	N/A	105	OFFICE		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-26	ATMOSPHERE	N/A	147	LAB		NO FLOW	No	SEWER VENT PIPE
3	16	3-0016-OPN-27	ATMOSPHERE	N/A	150	MECHANICAL ROOM		NO FLOW	No	SEWER VENT PIPE
3	16	3-0016-OPN-28	ATMOSPHERE	N/A	150	MECHANICAL ROOM		NO FLOW	No	SEWER VENT PIPE
3	16	3-0016-OPN-29	ATMOSPHERE	N/A	170	VERTICAL ACCELERATOR		NO FLOW	No	EXHAUST FAN DISCHARGE
3	16	3-0016-OPN-30	DAYLIGHT	N/A	270	VERTICAL ACCELERATOR		FLOW IS NIL	No	HEAT EXCHANGER PRESS. RELIEF
3	16	3-0016-OPN-31	DAYLIGHT	N/A	370	VERTICAL ACCELERATOR		FLOW IS NIL	No	EQUIP. CONDENSED WATER DRAIN
3	16	3-0016-OPN-32	DAYLIGHT	N/A	370	VERTICAL ACCELERATOR		FLOW IS NIL	No	EQUIP. CONDENSED WATER DRAIN
3	16	3-0016-OPN-33	DAYLIGHT	N/A	120	OFFICE		FLOW IS NIL	No	FIRE LINE DRAIN
3	16	3-0016-OPN-34	DAYLIGHT	N/A	110	OFFICE		FLOW IS NIL	No	FIRE LINE DRAIN
3	65	3-0065-OPN-1	RLW	1FD1	N/A	SOURCE STORAGE VAULT		NO FLOW	No	FLOOR DRAIN (PLUGGED)
3	65	3-0065-OPN-1	RLW	1FD2	N/A	WORK ROOM		NO FLOW	No	FLOOR DRAIN (PLUGGED)
3	65	3-0065-OPN-1	RLW	1FD3	N/A	UTILITY ROOM		FLOW IS NIL	No	WATER HEATER DRAIN
3	65	3-0065-OPN-1	RLW	1FD4	N/A	LEAK TEST ROOM		NO FLOW	No	FLOOR DRAIN (PLUGGED)
3	65	3-0065-OPN-1	RLW	1FD5	N/A	CART STORAGE ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	65	3-0065-OPN-1	RLW	1FD6	N/A	CHANGE ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	65	3-0065-OPN-1	RLW	1FD7	N/A	CHANGE ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	65	3-0065-OPN-1	RLW	1FD8	N/A	STORAGE		FLOW IS NIL	No	FLOOR WASHINGS
3	65	3-0065-OPN-1	RLW	1FD9	N/A	STORAGE		FLOW IS NIL	No	FLOOR WASHINGS
3	65	3-0065-OPN-1	RLW	1LV1	N/A	RESTROOM		5 DAYS A WEEK	No	LAVATORY

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	65	3-0065-OPN-1	RLW	1SD1	N/A	WORK ROOM		5 DAYS A WEEK	No	HAND WASHING
3	65	3-0065-OPN-1	RLW	1SD2	N/A	CHANGE ROOM		NO FLOW	No	SINK DRAIN (REMOVED)
3	65	3-0065-OPN-1	RLW	1SD3	N/A	CHANGE ROOM		5 DAYS A WEEK	No	SERVICE SINK
3	65	3-0065-OPN-1	RLW	1TL1	N/A	RESTROOM		NO FLOW	No	TOILET (REMOVED)
3	130	3-0130-OPN-1	ST LA-11	1FD1	N/A	WORK ROOM		FLOW IS NIL	No	DOMESTIC WATER DRAIN
3	130	3-0130-OPN-1	ST LA-11	1FD2	102	RESTROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	130	3-0130-OPN-1	ST LA-11	1FD3	100	WORK ROOM		FLOW IS NIL	No	WATER BACKFLOW PREVENTER
3	130	3-0130-OPN-1	ST LA-11	1FD3	100	WORK ROOM		FLOW IS NIL	No	WATER HEATER PRV
3	130	3-0130-OPN-1	ST LA-11	1LV1	102	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	130	3-0130-OPN-1	ST LA-11	1SD1	102	RESTROOM		5 DAYS A WEEK	No	SERVICE SINK
3	130	3-0130-OPN-1	ST LA-11	1TL1	102	RESTROOM		5 DAYS A WEEK	No	TOILET
3	130	3-0130-OPN-1	ST LA-11	1UR1	102	RESTROOM		5 DAYS A WEEK	No	URINAL
3	130	3-0130-OPN-1	ST LA-11	1WF1	100	WORK ROOM		5 DAYS A WEEK	No	DRINKING FOUNTAIN
3	130	3-0130-OPN-2	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	No	CONDENSED WATER
3	208	3-0208-OPN-1	03A025	1FD1	N/A	MECHANICAL ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	208	3-0208-OPN-1	03A025	1FD2	N/A	MECHANICAL ROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	208	3-0208-OPN-1	03A025	1FS1	N/A	MECHANICAL ROOM	0.4 GPM	FLOW IS NIL	No	COOLING TOWER BLOWDOWN
3	208	3-0208-OPN-1	03A025	N/A	N/A	PERMITTED OUTFALL	0.4 GPM	FLOW IS NIL	No	COOLING TOWER BLOWDOWN
3	316	3-0316-OPN-01	01S/SWSC	1FD1	103	MECHANICAL ROOM		FLOW IS NIL	No	WATER PRESS. REDUCING VALVE
3	316	3-0316-OPN-01	01S/SWSC	1FD2	103	MECHANICAL ROOM		FLOW IS NIL	No	AIR COMPRESSOR DRAIN
3	316	3-0316-OPN-01	01S/SWSC	1FD3	103	MECHANICAL ROOM		FLOW IS NIL	No	WATER HEATER PRV
3	316	3-0316-OPN-01	01S/SWSC	1FD3	103	MECHANICAL ROOM		FLOW IS NIL	No	WATER BACKFLOW PREVENTER DRAIN
3	316	3-0316-OPN-01	01S/SWSC	1FD4	102	RESTROOM		FLOW IS NIL	No	FLOOR WASHINGS
3	316	3-0316-OPN-01	01S/SWSC	1LV1	102	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	316	3-0316-OPN-01	01S/SWSC	1LV2	102	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	316	3-0316-OPN-01	01S/SWSC	1SD1	103	MECHANICAL ROOM		5 DAYS A WEEK	No	SERVICE SINK
3	316	3-0316-OPN-01	01S/SWSC	1TL1	102	RESTROOM		5 DAYS A WEEK	No	TOILET
3	316	3-0316-OPN-01	01S/SWSC	1TL2	102	RESTROOM		5 DAYS A WEEK	No	TOILET
3	316	3-0316-OPN-01	01S/SWSC	1UR1	102	RESTROOM		5 DAYS A WEEK	No	URINAL
3	316	3-0316-OPN-01	01S/SWSC	1WF1	100	TEST AREA		5 DAYS A WEEK	No	DRINKING FOUNTAIN
3	316	3-0316-OPN-02	DAYLIGHT	N/A	103	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN
3	316	3-0316-OPN-03	DAYLIGHT	N/A	103	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN
3	316	3-0316-OPN-04	DAYLIGHT	N/A	103	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	316	3-0316-OPN-05	DAYLIGHT	N/A	103	MECHANICAL ROOM		FLOW IS NIL	No	FIRE LINE DRAIN
3	316	3-0316-OPN-06	ATMOSPHERE	N/A	100	TEST AREA		NO FLOW	No	EQUIP. EXHAUST VENT
3	316	3-0316-OPN-07	ATMOSPHERE	N/A	100	TEST AREA		NO FLOW	No	EQUIP. EXHAUST VENT
3	316	3-0316-OPN-08	ATMOSPHERE	N/A	100	TEST AREA		NO FLOW	No	EQUIP. EXHAUST VENT
3	316	3-0316-OPN-09	01S/SWSC	1TD1	100	TEST AREA		NO FLOW	No	TRENCH DRAIN (PLUGGED)
3	316	3-0316-OPN-10	DAYLIGHT	N/A	100	TEST AREA		FLOW IS NIL	Yes	CONDENSED WATER DRAIN
3	316	3-0316-OPN-11	ATMOSPHERE	N/A	100	TEST AREA		NO FLOW	No	COMPRESSED AIR PRESS. RELIEF
3	477	3-0477	ND	N/A	N/A	TRANSPORTAINER		NO FLOW	No	NO DRAINS
3	550	3-0550	ND	N/A	N/A	OIL STORAGE TANKS(2)		NO FLOW	No	NO DRAINS
3	1228	3-1228	ND	N/A	N/A	STORAGE SHED		NO FLOW	No	NO DRAINS
3	1229	3-1229	ND	N/A	N/A	STORAGE SHED		NO FLOW	No	NO DRAINS
3	1522	3-1522-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	EQUIP. CONDENSATE DRAIN
3	1538	3-1538-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	EQUIP. CONDENSATE DRAIN
3	1612	3-1612-OPN-1	01S/SWSC	1LV1	105	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	1612	3-1612-OPN-1	01S/SWSC	1LV2	109	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	1612	3-1612-OPN-1	01S/SWSC	1SD1	N/A	JANITOR'S CLOSET		5 DAYS A WEEK	No	SERVICE SINK
3	1612	3-1612-OPN-1	01S/SWSC	1TL1	105	RESTROOM		5 DAYS A WEEK	No	TOILET
3	1612	3-1612-OPN-1	01S/SWSC	1TL2	109	RESTROOM		5 DAYS A WEEK	No	TOILET
3	1612	3-1612-OPN-1	01S/SWSC	1UR1	105	RESTROOM		5 DAYS A WEEK	No	URINAL
3	1612	3-1612-OPN-1	01S/SWSC	1WF1	100	CORRIDOR		5 DAYS A WEEK	No	DRINKING FOUNTAIN
3	1612	3-1612-OPN-2	DAYLIGHT	N/A	N/A	ROOF		FLOW IS NIL	Yes	CONDENSED WATER DRAIN
3	1730	3-1730-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	EQUIP. CONDENSATE DRAIN
3	1731	3-1731-OPN-1	01S/SWSC	1LV1	101	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	1731	3-1731-OPN-1	01S/SWSC	1TL1	101	RESTROOM		5 DAYS A WEEK	No	TOILET
3	1731	3-1731-OPN-2	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	CONDENSED WATER DRAIN
3	1734	3-1734-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	EQUIP. CONDENSATE DRAIN
3	1762	3-1762-OPN-1	01S/SWSC	1LV1	102B	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	1762	3-1762-OPN-1	01S/SWSC	1LV2	102C	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	1762	3-1762-OPN-1	01S/SWSC	1SD1	100	BREAK AREA		5 DAYS A WEEK	No	COUNTERTOP SINK
3	1762	3-1762-OPN-1	01S/SWSC	1TL1	102B	RESTROOM		5 DAYS A WEEK	No	TOILET
3	1762	3-1762-OPN-1	01S/SWSC	1TL2	102C	RESTROOM		5 DAYS A WEEK	No	TOILET
3	1762	3-1762-OPN-2	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	CONDENSED WATER DRAIN
3	1762	3-1762-OPN-3	DAYLIGHT	N/A	102A	UTILITY CLOSET		FLOW IS NIL	Yes	WATER HEATER PRV

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	1898	3-1898-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	EQUIP. CONDENSATE DRAIN
3	1944	3-1944	ND	N/A	N/A	TRANSPORTAINER		NO FLOW	No	NO DRAINS
3	1945	3-1945	ND	N/A	N/A	TRANSPORTAINER		NO FLOW	No	NO DRAINS
3	1946	3-1946	ND	N/A	N/A	TRANSPORTAINER		NO FLOW	No	NO DRAINS
3	1949	3-1949	ND	N/A	N/A	TRANSPORTAINER		NO FLOW	No	NO DRAINS
3	2003	3-2003-OPN-1	01S/SWSC	1SD1	109	BREAK ROOM		FLOW IS NIL	No	COUNTERTOP SINK
3	2003	3-2003-OPN-2	DAYLIGHT	N/A	135	MECHANICAL ROOM		FLOW IS NIL	Yes	EQUIP. CONDENSED WATER DRAIN
3	2003	3-2003-OPN-3	DAYLIGHT	N/A	135	MECHANICAL ROOM		FLOW IS NIL	No	WATER HEATER DRAIN
3	2004	3-2004-OPN-1	01S/SWSC	1LV1	115	BATHROOM		5 DAYS A WEEK	No	LAVATORY
3	2004	3-2004-OPN-1	01S/SWSC	1LV2	117	BATHROOM		5 DAYS A WEEK	No	LAVATORY
3	2004	3-2004-OPN-1	01S/SWSC	1SD1	118	JANITOR'S CLOSET		5 DAYS A WEEK	No	SERVICE SINK
3	2004	3-2004-OPN-1	01S/SWSC	1SH1	115	BATHROOM		5 DAYS A WEEK	No	SHOWER DRAIN
3	2004	3-2004-OPN-1	01S/SWSC	1SH2	117	BATHROOM		5 DAYS A WEEK	No	SHOWER DRAIN
3	2004	3-2004-OPN-1	01S/SWSC	1TL1	115	BATHROOM		5 DAYS A WEEK	No	TOILET
3	2004	3-2004-OPN-1	01S/SWSC	1TL2	117	BATHROOM		5 DAYS A WEEK	No	TOILET
3	2004	3-2004-OPN-1	01S/SWSC	1UR1	117	BATHROOM		5 DAYS A WEEK	No	URINAL
3	2004	3-2004-OPN-2	DAYLIGHT	N/A	136	MECHANICAL ROOM		FLOW IS NIL	Yes	EQUIP. CONDENSATE DRAIN
3	2004	3-2004-OPN-3	DAYLIGHT	N/A	136	MECHANICAL ROOM		FLOW IS NIL	No	WATER HEATER DRAIN
3	2004	3-2004-OPN-4	DAYLIGHT	N/A	136	MECHANICAL ROOM		FLOW IS NIL	No	WATER BACKFLOW PREVENTER DRAIN
3	2005	3-2005-OPN-1	DAYLIGHT	N/A	137	MECHANICAL ROOM		FLOW IS NIL	Yes	EQUIP. CONDENSATE DRAIN
3	2005	3-2005-OPN-2	DAYLIGHT	N/A	137	MECHANICAL ROOM		FLOW IS NIL	No	WATER HEATER DRAIN
3	2005	3-2005-OPN-3	01S/SWSC	1SD1	100B	CORRIDOR		5 DAYS A WEEK	No	SERVICE SINK
3	2006	3-2006-OPN-1	01S/SWSC	1LV1	105	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	2006	3-2006-OPN-1	01S/SWSC	1LV2	105	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	2006	3-2006-OPN-1	01S/SWSC	1LV3	107	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	2006	3-2006-OPN-1	01S/SWSC	1LV4	107	RESTROOM		5 DAYS A WEEK	No	LAVATORY
3	2006	3-2006-OPN-1	01S/SWSC	1SD1	111	BREAK AREA		5 DAYS A WEEK	No	COUNTERTOP SINK
3	2006	3-2006-OPN-1	01S/SWSC	1TL1	105	RESTROOM		5 DAYS A WEEK	No	TOILET
3	2006	3-2006-OPN-1	01S/SWSC	1TL2	105	RESTROOM		5 DAYS A WEEK	No	TOILET
3	2006	3-2006-OPN-1	01S/SWSC	1TL3	107	RESTROOM		5 DAYS A WEEK	No	TOILET
3	2006	3-2006-OPN-1	01S/SWSC	1TL4	107	RESTROOM		5 DAYS A WEEK	No	TOILET
3	2006	3-2006-OPN-1	01S/SWSC	1WF1	100A	CORRIDOR		5 DAYS A WEEK	No	DRINKING FOUNTAIN
3	2006	3-2006-OPN-2	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	EQUIP. CONDENSED WATER DRAIN

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
3	2006	3-2006-OPN-3	DAYLIGHT	N/A	160	MECHANICAL ROOM		FLOW IS NIL	No	WATER BACKFLOW PREVENTER DRAIN
3	2006	3-2006-OPN-4	DAYLIGHT	N/A	102	OFFICE		FLOW IS NIL	No	FIRE LINE DRAIN
3	2007	3-2007-OPN-1	DAYLIGHT	N/A	115	OFFICE		FLOW IS NIL	No	FIRE LINE DRAIN
3	2007	3-2007-OPN-2	DAYLIGHT	N/A	159	MECHANICAL ROOM		FLOW IS NIL	No	WATER BACKFLOW PREVENTER DRAIN
3	2007	3-2007-OPN-3	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	EQUIP. CONDENSED WATER DRAIN
3	2008	3-2008-OPN-1	01S/SWSC	1SD1	130	OFFICE AREA		5 DAYS A WEEK	No	COUNTERTOP SINK
3	2008	3-2008-OPN-1	01S/SWSC	1WF1	100F	CORRIDOR		5 DAYS A WEEK	No	DRINKING FOUNTAIN
3	2008	3-2008-OPN-2	DAYLIGHT	1WH1	130	OFFICE AREA		FLOW IS NIL	No	WATER HEATER DRAIN
3	2008	3-2008-OPN-3	DAYLIGHT	N/A	158	MECHANICAL ROOM		FLOW IS NIL	Yes	WATER BACKFLOW PREVENTER DRAIN
3	2008	3-2008-OPN-4	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	No	EQUIP. CONDENSED WATER DRAIN
3	2008	3-2008-OPN-5	DAYLIGHT	N/A	100F	CORRIDOR		FLOW IS NIL	No	FIRE LINE DRAIN
3	2009	3-2009-OPN-1	RLW	1CD1	131	WORK ROOM		5 DAYS A WEEK	No	FUME HOOD CUP DRAIN
3	2009	3-2009-OPN-2	01S/SWSC	1ED1	131	WORK ROOM		FLOW IS NIL	No	EMERGENCY EYE WASH DRAIN
3	2009	3-2009-OPN-2	01S/SWSC	1LV1	136	BATHROOM		5 DAYS A WEEK	No	LAVATORY
3	2009	3-2009-OPN-2	01S/SWSC	1LV2	136	BATHROOM		5 DAYS A WEEK	No	LAVATORY
3	2009	3-2009-OPN-2	01S/SWSC	1LV3	138	BATHROOM		5 DAYS A WEEK	No	LAVATORY
3	2009	3-2009-OPN-2	01S/SWSC	1LV4	138	BATHROOM		5 DAYS A WEEK	No	LAVATORY
3	2009	3-2009-OPN-2	01S/SWSC	1SD1	135A	DARKROOM		5 DAYS A WEEK	No	RINSE WATER/HAND WASHING
3	2009	3-2009-OPN-2	01S/SWSC	1SD2	135A	DARKROOM		5 DAYS A WEEK	No	RINSE WATER/HAND WASHING
3	2009	3-2009-OPN-2	01S/SWSC	1SD3	135A	DARKROOM		5 DAYS A WEEK	No	RINSE WATER/HAND WASHING
3	2009	3-2009-OPN-2	01S/SWSC	1SH1	136	BATHROOM		5 DAYS A WEEK	No	SHOWER DRAIN
3	2009	3-2009-OPN-2	01S/SWSC	1SH2	138	BATHROOM		5 DAYS A WEEK	No	SHOWER DRAIN
3	2009	3-2009-OPN-2	01S/SWSC	1TL1	136	BATHROOM		5 DAYS A WEEK	No	TOILET
3	2009	3-2009-OPN-2	01S/SWSC	1TL2	136	BATHROOM		5 DAYS A WEEK	No	TOILET
3	2009	3-2009-OPN-2	01S/SWSC	1TL3	138	BATHROOM		5 DAYS A WEEK	No	TOILET
3	2009	3-2009-OPN-2	01S/SWSC	1TL4	138	BATHROOM		5 DAYS A WEEK	No	TOILET
3	2009	3-2009-OPN-2	01S/SWSC	1WF1	100H	CORRIDOR		5 DAYS A WEEK	No	DRINKING FOUNTAIN
3	2009	3-2009-OPN-3	DAYLIGHT	N/A	135A	DARKROOM		FLOW IS NIL	No	WATER HEATER DRAIN
3	2009	3-2009-OPN-4	DAYLIGHT	N/A	157	MECHANICAL ROOM		FLOW IS NIL	No	WATER BACKFLOW PREVENTER DRAIN
3	2009	3-2009-OPN-5	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	EQUIP. CONDENSATE DRAIN
3	2010	3-2010-OPN-1	01S/SWSC	1ED1	147	SPECTROSCOPY ROOM		FLOW IS NIL	No	EMERGENCY EYE WASH DRAIN
3	2010	3-2010-OPN-1	01S/SWSC	1SD1	145	BREAK ROOM		5 DAYS A WEEK	No	COUNTERTOP SINK
3	2010	3-2010-OPN-1	01S/SWSC	1SD2	145A	JANITOR'S CLOSET		5 DAYS A WEEK	No	SERVICE SINK

REPORT #

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TA	BLDG	OUTLET	EPA	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE	PERIODICITY	SEASONAL	SOURCE TYPES
		PIPING NO	OUTFALL #							
3	2010	3-2010-OPN-2	DAYLIGHT	1WH1	145A	JANITOR'S CLOSET		FLOW IS NIL	No	WATER HEATER DRAIN
3	2010	3-2010-OPN-3	ATMOSPHERE	N/A	N/A	EXTERIOR LOADING DOCK		FLOW IS NIL	No	NITROGEN TANK PRESS. RELIEF
3	2010	3-2010-OPN-4	ATMOSPHERE	N/A	N/A	EXTERIOR LOADING DOCK		FLOW IS NIL	No	NITROGEN TANK PRESS. RELIEF
3	2010	3-2010-OPN-5	ATMOSPHERE	N/A	N/A	EXTERIOR LOADING DOCK		FLOW IS NIL	No	NITROGEN TANK PRESS. RELIEF
3	2010	3-2010-OPN-6	ATMOSPHERE	N/A	N/A	EXTERIOR LOADING DOCK		FLOW IS NIL	No	NITROGEN TANK PRESS. RELIEF
3	2010	3-2010-OPN-7	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	EQUIP. CONDENSATE DRAIN
3	2010	3-2010-OPN-8	DAYLIGHT	N/A	N/A	EXTERIOR		FLOW IS NIL	Yes	EQUIP. CONDENSATE DRAIN
3	2010	3-2010-OPN-9	DAYLIGHT	N/A	156	MECHANICAL ROOM		FLOW IS NIL	No	WATER BACKFLOW PREVENTER DRAIN
3	2062	3-2062	ND	N/A	N/A	COMMUNICATIONS SHED		NO FLOW	No	NO DRAINS
3	2130	3-2130	ND	N/A	N/A	STORAGE SHED		NO FLOW	No	NO DRAINS
3	2164	3-2164	ND	N/A	N/A	SEMI-TRAILER		NO FLOW	No	NO DRAINS





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 RATE (in mgd)		5. TOTAL VOLUME (specify with units)		6. DUR- ATION (in days)
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	B. FLOW RATE		D. TOTAL VOLUME		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
03A025	Cooling tower blowdown	5	12	0.0001	.0002	100 GPD	200 GPD	260 day/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		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COM- PLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. RE- QUIRED	b. PRO- JECTED
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

**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-8.

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 datasheet			

**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)

**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)

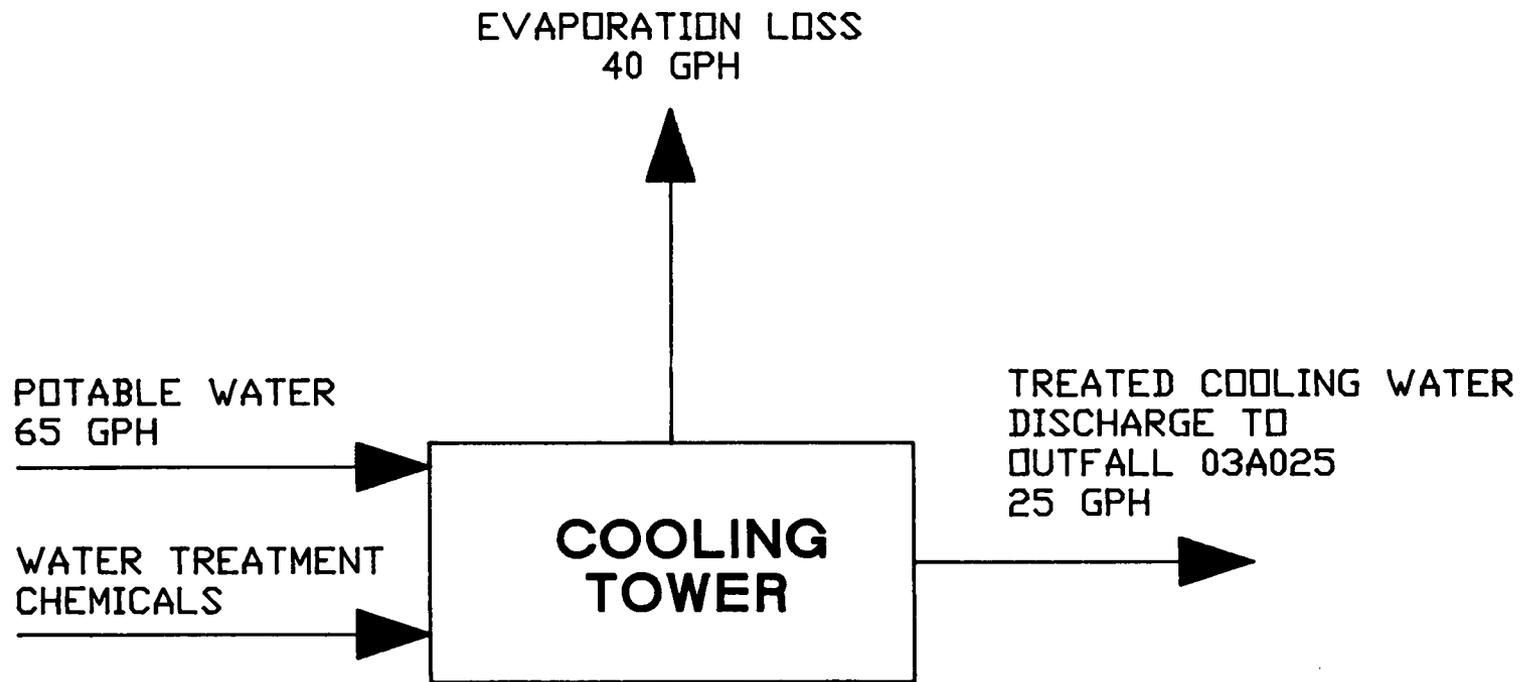
JERRY L. BELLOWS, AREA MANAGER, DOE  
ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS

B. PHONE NO. (area code & no.)

505-667-5105  
505-667-9390

C. SIGNATURE

D. DATE SIGNED



**TA-3-208  
COOLING TOWER**

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.

OUTFALL NO.  
03A025

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

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

I. POLLUTANT	2. EFFLUENT						d. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)			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	
a. Biochemical Oxygen Demand (BOD)	2.0	1.5						mg/l	g/d			
b. Chemical Oxygen Demand (COD)	42.0	31.8						mg/l	g/d			
c. Total Organic Carbon (TOC)	7.4	5.6						mg/l	g/d			
d. Total Suspended Solids (TSS)	7.0	5.3						mg/l	g/d			
e. Ammonia (as N)	< .01	< 7.570						mg/l	mg/d			
f. Flow	VALUE 200		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	X			STANDARD UNITS		X		

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'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. 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	
a. Bromide (24959-67-9)	X		3.24	2.5						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	0.4						mg/l	g/d			
f. Nitrate-Nitrite (as N)	X		1.13	0.9						mg/l	g/d			

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. RECEIVED PERCENT	b. RECEIVED AS PERCENT	B. MAXIMUM DAILY VALUE		C. MAXIMUM 30 DAY VALUE (if available)		D. LONG TERM AVG. VALUE (if available)		e. NO. OF ANALYSES	B. CONCENTRATION	D. MASS	F. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X		2.3	1.7						mg/l	g/d			
h. Oil and Grease		X	< 1.2	< 0.9						mg/l	g/d			
i. Phosphorus (as P), Total (7723-14-0)	X		306	0.2						mg/l	g/d			
j. Radioactivity														
(1) Alpha, Total	X		14	10.6						pCi/l	nCi/d			
(2) Beta, Total	X		6.6	5.0						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		0.07	53.0						pCi/l	nCi/d			
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)	X		143	108.3						mg/l	g/d			
l. Sulfide (as S)	X		70.2	53.1						mg/l	g/d			
m. Sulfite (as SO <sub>3</sub> ) (14268-48-3)	X		18.8	14.2						mg/l	g/d			
n. Surfactants	X		0.11	83.3						mg/l	mg/d			
o. Aluminum, Total (7429-90-8)	X		0.06	45.4						mg/l	mg/d			
p. Barium, Total (7440-39-9)	X		0.11	83.3						mg/l	mg/d			
q. Boron, Total (7440-42-8)	X		0.33	0.2						mg/l	g/d			
r. Cobalt, Total (7440-48-4)		X	0.07	53.0						mg/l	mg/d			
s. Iron, Total (7439-89-6)	X		1.1	0.8						mg/l	g/d			
t. Magnesium, Total (7439-96-4)	X		5.8	4.4						mg/l	g/d			
u. Molybdenum, Total (7439-98-7)	X		1.7	1.3						mg/l	g/d			
v. Manganese, Total (7439-96-5)	X		0.05	37.9						mg/l	mg/d			
w. Tin, Total (7440-31-5)		X	< 0.050	< 37.9						mg/l	mg/d			
x. Titanium, Total (7440-32-8)		X	< 0.004	< 3.0						mg/l	mg/d			

NM0890010515

03A025

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. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED AB-SENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVG. VALUE (if available)		D. NO. OF ANAL-YSES	a. CONCENTRATION	b. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANAL-YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>															
1M. Antimony, Total (7440-36-0)			X	< 0.050	< 37.9						mg/l	mg/d			
2M. Arsenic, Total (7440-38-2)		X		0.04	30.3						mg/l	mg/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.1	< 75.7						mg/l	mg/d			
4M. Cadmium, Total (7440-43-9)		X		.004	3.0						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		.260	0.2						mg/l	g/d			
6M. Copper, Total (7440-50-8)		X		0.1	75.7						mg/l	mg/d			
7M. Lead, Total (7439-92-1)		X		.050	37.9						mg/l	mg/d			
8M. Mercury, Total (7439-97-6)			X	< .0002	< 0.2						mg/l	mg/d			
9M. Nickel, Total (7440-02-0)		X		.28	0.2						mg/l	g/d			
10M. Selenium, Total (7782-49-2)			X	< .001	< 0.8						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< 0.01	< 7.6						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)		X		0.51	0.4						mg/l	g/d			
13M. Zinc, Total (7440-66-6)		X		.071	53.7						mg/l	mg/d			
14M. Cyanide, Total (57-12-5)		X		.033	25.0						mg/l	mg/d			
15M. Phenols, Total			X	< .01	< 7.6						mg/l	mg/d			
<b>DIOXIN</b>															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1784-01-6)			X	DESCRIBE RESULTS											

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING EQUIPMENT	B. RECEIVED PERCENT	C. RECEIVED PERCENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		E. LONG TERM AVG. VALUE (if available)		D. NO. OF ANALYSES	B. CONCENTRATION	D. MASS	B. LONG TERM AVERAGE VALUE		D. 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	< 3.8						mg/l	mg/d			
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-26-2)			X	< 0.005	< 3.8						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 3.8						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 3.8						mg/l	mg/d			
8V. Chlorodibromomethane (124-48-1)			X	< 0.005	< 3.8						mg/l	mg/d			
9V. Chloroethane (75-00-3)			X	< 0.010	< 0.00						mg/l	mg/d			
10V. 2-Chloroethylnyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< 0.005	< 3.8						mg/l	mg/d			
12V. Dichlorobromomethane (75-27-4)			X	< 0.005	< 3.8						mg/l	mg/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethene (75-34-3)			X	< 0.005	< 3.8						mg/l	mg/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< 0.005	< 3.8						mg/l	mg/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< 0.005	< 3.8						mg/l	mg/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< 0.005	< 3.8						mg/l	kg/d			
18V. 1,3-Dichloropropane (542-75-6)			X	< 0.005	< 3.8						mg/l	mg/d			
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 3.8						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 7.6						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 7.6						mg/l	mg/d			

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	TESTING REQUIRED	D. BELIEVED PRESENT	C. BELIEVED PRESENT	A. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		G. LONG TERM AVER. VALUE (if available)		D. NO. OF ANALYSES	B. CONCENTRATION	E. MASS	F. LONG TERM AVERAGE VALUE		B. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - VOLATILE COMPOUNDS (continued)</b>															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 3.8						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< 0.005	< 3.8						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< 0.005	< 3.8						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< 0.005	< 3.8						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-80-5)			X	< 0.005	< 3.8						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-85-6)			X	< 0.005	< 3.8						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< 0.005	< 3.8						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< 0.005	< 3.8						mg/l	mg/d			
30V. Trichlorofluoromethane (75-89-4)			X	< 0.005	< 3.8						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 7.6						mg/l	mg/d			
<b>GC/MS FRACTION - ACID COMPOUNDS</b>															
1A. 2-Chlorophenol (95-57-9)			X	< 0.010	< 7.6						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< 0.010	< 7.6						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-8)			X	< 0.010	< 7.6						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (834-52-1)			X	< 0.010	< 7.6						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< 0.010	< 7.6						mg/l	mg/d			
6A. 2-Nitrophenol (68-75-5)			X	< 0.010	< 7.6						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 7.6						mg/l	mg/d			
8A. P-Chloro-M-Cresol (89-80-7)			X	< 0.010	< 7.6						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< 0.010	< 7.6						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< 0.010	< 7.6						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< 0.010	< 7.6						mg/l	mg/d			

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING RE-QUIRED	b. BELIEVED PRE-SENT	c. BELIEVED AB-SENT	d. MAXIMUM DAILY VALUE		e. MAXIMUM 30 DAY VALUE (if available)		f. LONG TERM AVG. VALUE (if available)		d. NO. OF ANAL- YSES	g. CONCENTRATION	h. MASS	i. LONG TERM AVERAGE VALUE		b. NO. OF ANAL YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS</b>															
1B. Acenaphthene (83-32-9)			X	< 0.010	< 7.6						mg/l	mg/d			
2B. Acenaphthylene (206-96-6)			X	< 0.010	< 7.6						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< 0.010	< 7.6						mg/l	mg/d			
4B. Benzidine (92-87-6)			X	< 0.010	< 7.6						mg/l	mg/d			
5B. Benzo (a) Anthracene (56-55-3)			X	< 0.010	< 7.6						mg/l	mg/d			
6B. Benzo (a) Pyrene (50-32-8)			X	< 0.010	< 7.6						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (206-99-2)			X	< 0.010	< 7.6						mg/l	mg/d			
8B. Benzo (ghi) Perylene (191-24-2)			X	< 0.010	< 7.6						mg/l	mg/d			
9B. Benzo (h) Fluoranthene (207-08-9)			X	< 0.010	< 7.6						mg/l	mg/d			
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X	< 0.010	< 7.6						mg/l	mg/d			
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X	< 0.010	< 7.6						mg/l	mg/d			
12B. Bis (2-Chloro-propyl) Ether (102-60-1)			X	< 0.010	< 7.6						mg/l	mg/d			
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)			X	< 0.010	< 7.6						mg/l	mg/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-85-3)			X	< 0.010	< 7.6						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< 0.010	< 7.6						mg/l	mg/d			
16B. 2-Chloro-naphthalene (91-68-7)			X	< 0.010	< 7.6						mg/l	mg/d			
17B. 4-Chloro-phenyl Phenyl Ether (7006-72-3)			X	< 0.010	< 7.6						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< 0.010	< 7.6						mg/l	mg/d			
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	< 0.010	< 7.6						mg/l	mg/d			
20B. 1,2-Dichloro-benzene (95-60-1)			X	< 0.010	< 7.6						mg/l	mg/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< 0.010	< 7.6						mg/l	mg/d			

CONTINUED FROM PAGE V-6

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03A025

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 AVG. VALUE (if available)		D. NO. OF ANALYSES	E. CONCENTRATION	F. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)</b>															
22B. 1,4-Dichlorobenzene (108-68-7)			X	< 0.010	< 7.6						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 7.6						mg/l	mg/d			
24B. Diethyl Phthalate (84-86-2)			X	< 0.010	< 7.6						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 7.6						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 7.6						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 7.6						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (806-20-2)			X	< 0.010	< 7.6						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 7.6						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine (or Azobenzene) (122-66-7)			X	< 0.010	< 7.6						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< 0.010	< 7.6						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 7.6						mg/l	mg/d			
33B. Hexachlorobenzene (118-72-1)			X	< 0.010	< 7.6						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 7.6						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 7.6						mg/l	mg/d			
36B. Hexachloroethane (87-72-1)			X	< 0.010	< 7.6						mg/l	mg/d			
37B. Indeno (1,2,3-cd) Pyrene (193-39-6)			X	< 0.010	< 7.6						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 7.6						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 7.6						mg/l	mg/d			
40B. Nitrobenzene (98-95-3)			X	< 0.010	< 7.6						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-8)			X	< 0.010	< 7.6						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< 0.010	< 7.6						mg/l	mg/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. SP. LIEVED PRESENT	C. SP. LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	B. CONCENTRATION	D. MASS	A. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(1) MASS				(1) CONCENTRATION	(1) MASS	
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)</b>															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< 0.010	< 15.1						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 15.1						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 15.1						mg/l	mg/d			
46B. 1,2,4 - Tri-chlorobenzene (120-82-1)			X	< 0.010	< 15.1						mg/l	mg/d			
<b>GC/MS FRACTION - PESTICIDES</b>															
1P. Aldrin (309-00-2)			X	< 0.06	< 90.8						ug/l	ug/d			
2P. α-BHC (319-84-6)			X	< 0.04	< 60.6						ug/l	ug/d			
3P. β-BHC (319-85-7)			X	< 0.1	< 0.2						ug/l	mg/d			
4P. γ-BHC (58-89-8)			X	< 0.03	< 45.4						ug/l	ug/d			
5P. δ-BHC (319-86-8)			X	< 0.12	< 0.2						ug/l	mg/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 0.4						ug/l	mg/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 90.8						ug/l	ug/d			
8P. 4,4'-DDE (72-65-8)			X	< 0.08	< 0.1						ug/l	mg/d			
9P. 4,4'-DDD (72-84-8)			X	< 0.08	< 0.1						ug/l	mg/d			
10P. Dieldrin (60-57-1)			X	< 0.08	< 0.1						ug/l	mg/d			
11P. α-Endosulfan (115-29-7)			X	< 0.05	< 75.7						ug/l	ug/d			
12P. β-Endosulfan (115-29-7)			X	< 0.08	< 0.1						ug/l	mg/d			
13P. Endosulfan Sulfate (1031-97-8)			X	< 0.09	< 0.1						ug/l	mg/d			
14P. Endrin (72-20-8)			X	< 0.06	< 90.8						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.62	< 0.9						ug/l	mg/d			
16P. Heptachlor (76-44-8)			X	< 0.03	< 45.4						ug/l	ug/d			

CONTINUED FROM PAGE V-8

NM0890010515

03A025

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 AVG. 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	
<b>GC/MS FRACTION - PESTICIDES (continued)</b>															
17P. Heptachlor Epoxide (1024-57-3)			X	< 0.08	< 60.6						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< 0.71	< 0.5						ug/l	mg/d			
19P. PCB-1254 (11097-69-1)			X	< 0.71	< 0.5						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 (11098-82-5)			X	< 0.71	< 0.5						ug/l	mg/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 1.9						ug/l	mg/d			



## DYE STUDY INFORMATION

BUILDING NUMBER	DRAIN NUMBER	DID DYE REACH EXPECTED DESTINATION?	COMMENTS
3-16	SBCFD2	YES	NONE
3-16	SBCSD1	YES	NONE
3-16	BCSD7	YES	NONE
3-16	BCSD8	YES	NONE
3-16	BCSD10	YES	NONE
3-16	BCSD11	YES	NONE
3-16	BCSD15	YES	NONE
3-16	BFD1	YES	NONE
3-16	BFD10	YES	NONE
3-16	BFS2	YES	NONE
3-16	BLV2	YES	NONE
3-16	BSH1	YES	NONE
3-16	1CFS2	YES	NONE
3-16	1CSD1	YES	NONE
3-16	1FD4	YES	NONE
3-16	1FS2	YES	NONE
3-16	1FS3	YES	NONE
3-16	1FS6	YES	NONE
3-16	1LV1	YES	NONE
3-16	1LV2	YES	NONE
3-16	1SD3	YES	NONE
3-16	1SD9	YES	NONE
3-16	1SD10	YES	NONE
3-65	1LV1	YES	NONE
3-65	1SD3	YES	NONE
3-130	1SD1	YES	NONE
3-208	1FS1	YES	NONE
3-316	1LV2	YES	NONE
3-316	1SD1	YES	NONE
3-1612	1LV1	YES	NONE
3-1762	1LV2	YES	NONE
3-2003	1SD1	YES	NONE
3-2004	1LV2	YES	NONE
3-2006	1LV2	YES	NONE
CONTINUED ON NEXT SHT.			





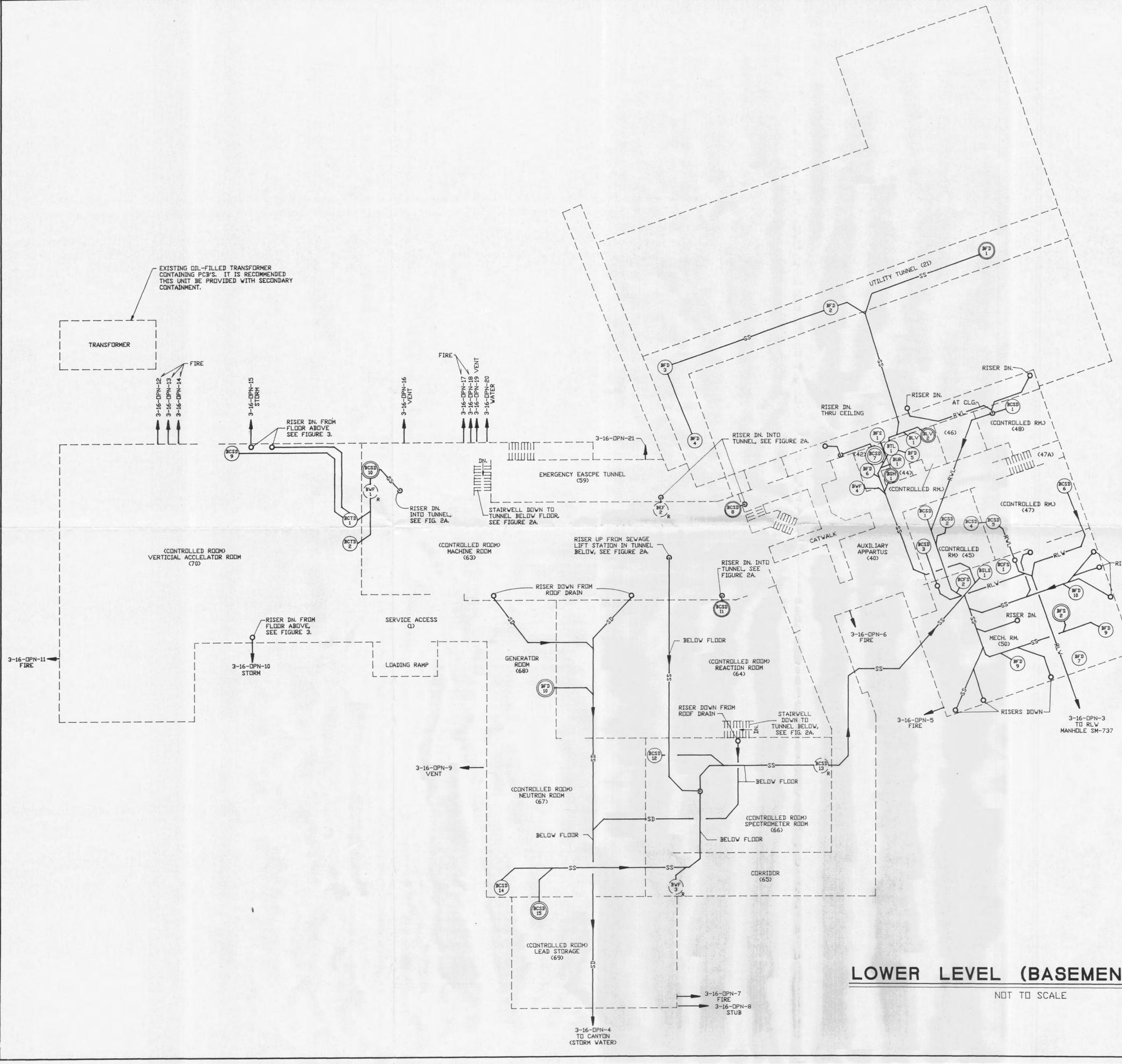
**TA-3 PARTIAL SITE PLAN**

NOT TO SCALE

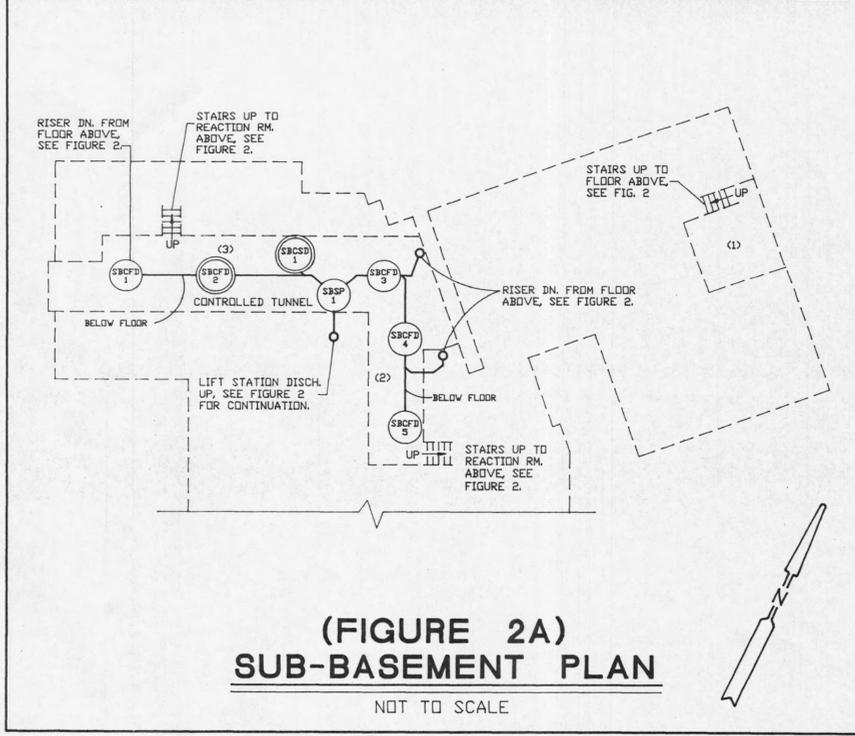
NOTE:

THIS DRAWING WAS DERIVED FROM L.A.N.L. DRAWING R-5134 AND SITE VISIT.

SANTA FE ENGINEERING, LTD.			
<b>TA-3 PARTIAL SITE PLAN</b>	DRAWN DESIGN CHECKED DATE	M.E.W. M.E.W. P.E.B. 6-26-92	
SUBMITTED	RECOMMENDED	APPROVED	SHEET 1 OF 1
Los Alamos Los Alamos National Laboratory Los Alamos, New Mexico 87545		DATE	
CLASSIFICATION REQUESTING DIVISION REQUESTING GROUP	REVIEWER LAB JOB NO. 11056-38	DRAWING NO. FIGURE 1	REV.
EM-8			



**LOWER LEVEL (BASEMENT) PLAN**  
NOT TO SCALE



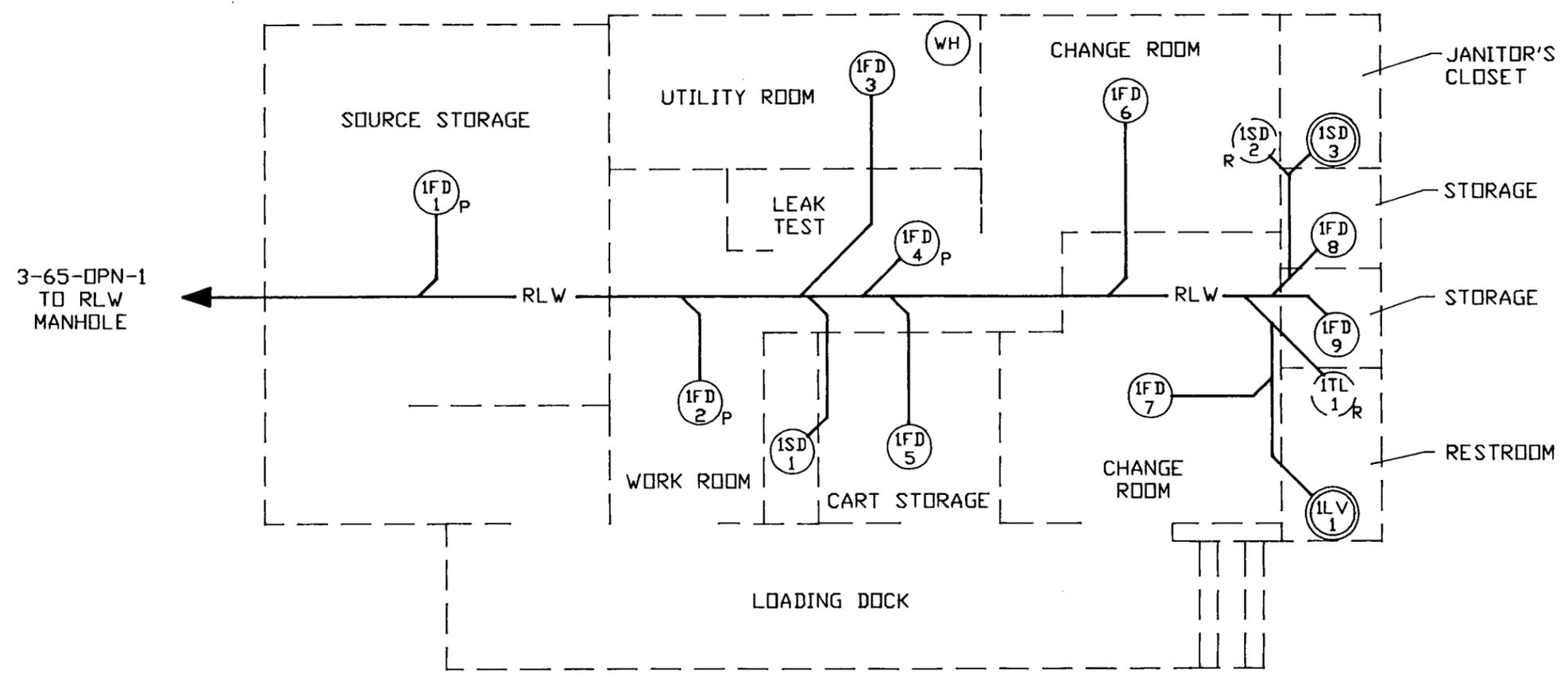
**(FIGURE 2A)  
SUB-BASEMENT PLAN**  
NOT TO SCALE

SYMBOL LEGEND	
CES	CONTAMIN. EMER. SHOWER
CFS	CONTAMIN. FLOOR SINK
CLV	CONTAMIN. LAVATORY
CSD	CONTAMIN. SINK DRAIN
CSH	CONTAMIN. SHOWER DRAIN
CTD	CONTAMIN. TRENCH DRAIN
FD	FLOOR DRAIN
FS	FLOOR SINK
RLW	RADIOACTIVE LIQUID WASTE
SD	SINK DRAIN
SP	SUMP PUMP
SS	SANITARY SEWER PIPE
TL	TOLIET
UR	URNIAL
WF	WATER FOUNTAIN

- DYE TESTED DRAIN
- DRAIN HAS BEEN PLUGGED
- DRAIN HAS BEEN REMOVED

SANTA FE ENGINEERING, LTD.			
<b>TA-3-16 DRAIN SCHEMATIC</b>		DRAWN	D.A.H.
		DESIGN	7.7.7
		CHECKED	P.E.B.
		RELEASED	
		DATE	11/11/92
SUBMITTED	RECOMMENDED	APPROVED	
<b>L s Alam s</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET OF
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EH-8	11056-38	FIGURE 2	



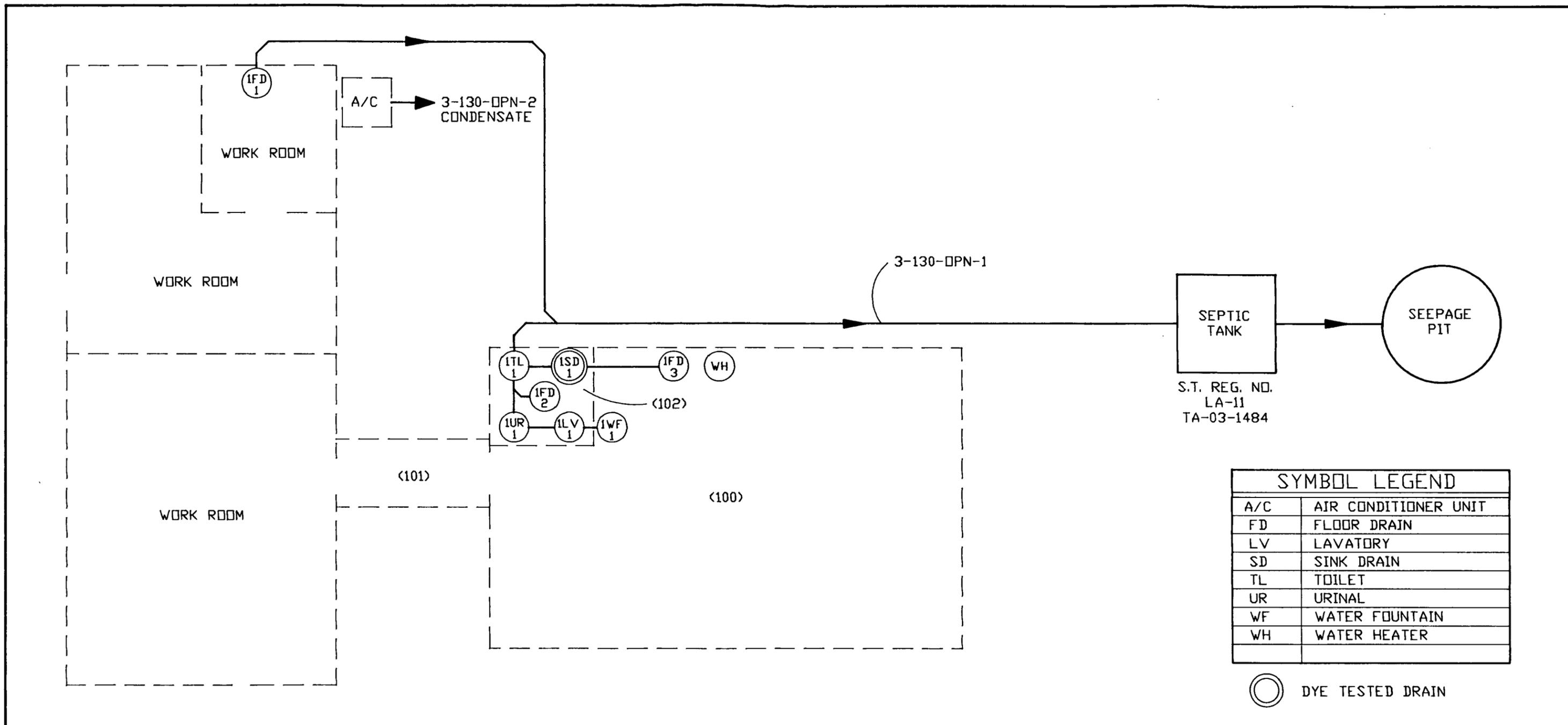


SYMBOL LEGEND	
FD	FLOOR DRAIN
LV	LAVATORY
RLW	RADIOACTIVE LIQUID WASTE
SD	SINK DRAIN
TL	TOILET
WH	WATER HEATER

- DYE TESTED DRAIN
- <sub>R</sub> REMOVED
- <sub>P</sub> PLUGGED

NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SANTA FE ENGINEERING, LTD.			
<b>TA3-65</b> <b>DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	11-3-93
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b> Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP	11056-38	FIGURE 4	



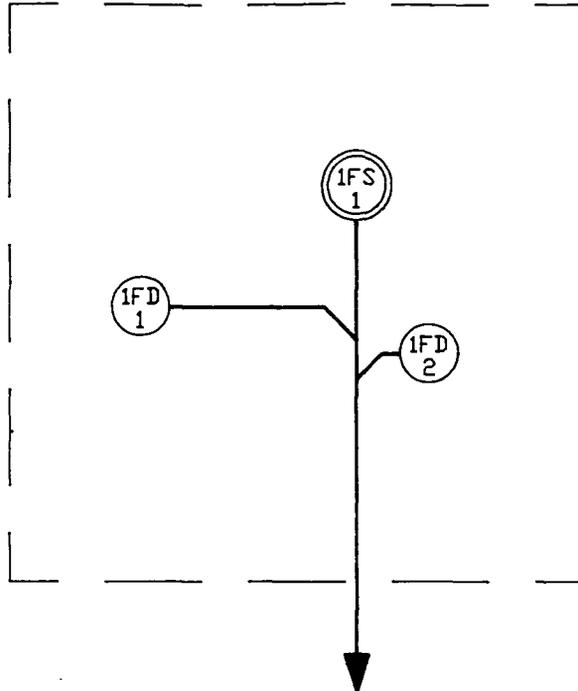
SYMBOL LEGEND	
A/C	AIR CONDITIONER UNIT
FD	FLOOR DRAIN
LV	LAVATORY
SD	SINK DRAIN
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN
WH	WATER HEATER

○ DYE TESTED DRAIN

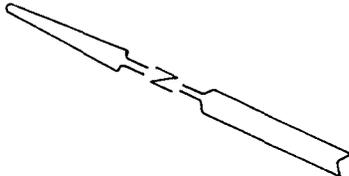
NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-43855 AND SITE VISIT.



<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-130 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	6-26-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b> Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP	11056-38	FIGURE 5	



3-208-OPN-1  
 PERMITTED OUTFALL  
 03A025 TO  
 PAJARITO CANYON



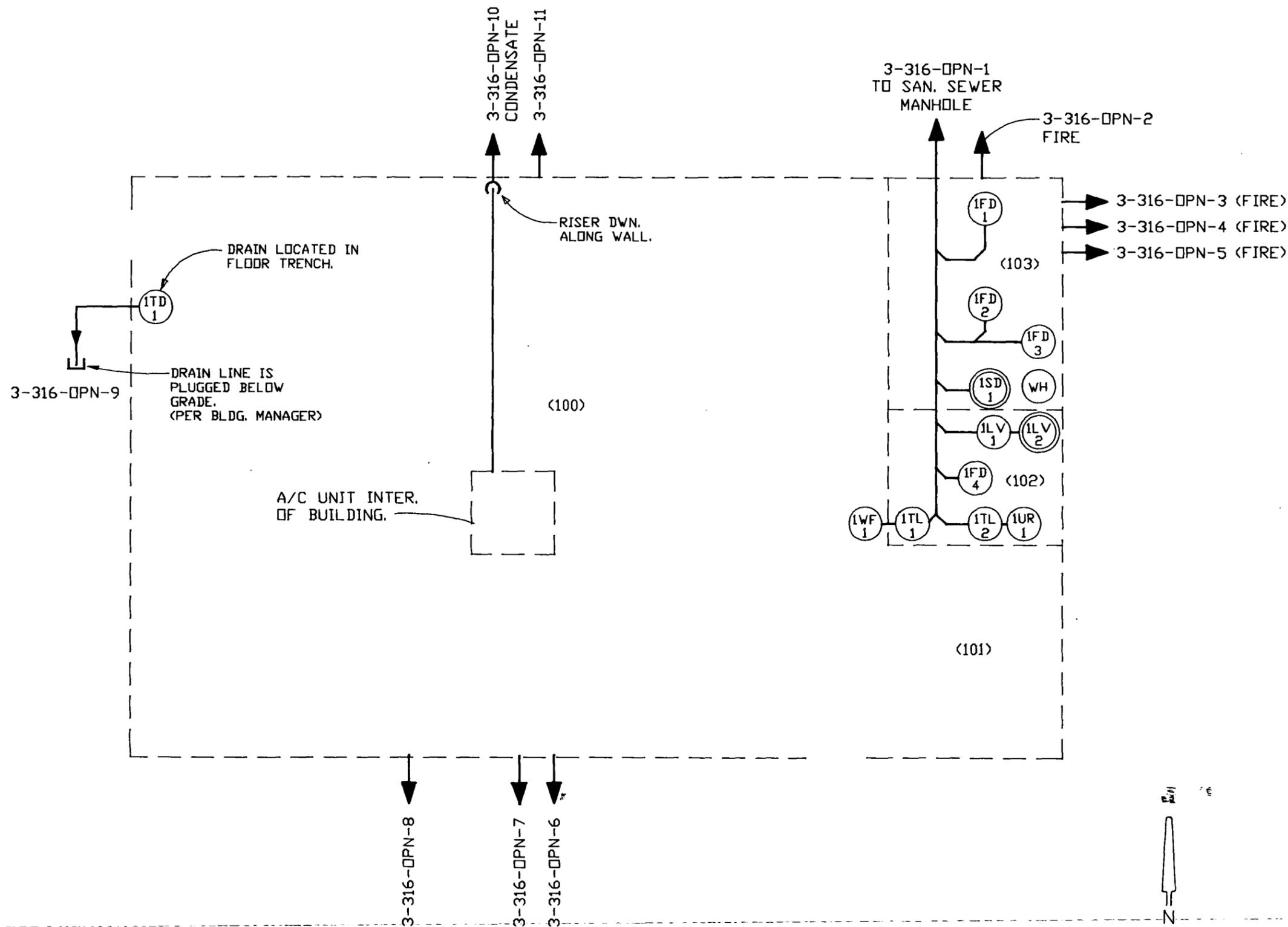
SYMBOL LEGEND	
FD	FLOOR DRAIN
FS	FLOOR SINK

○ DYE TESTED DRAIN

**NOTE:**

THIS DRAIN SCHEMATIC WAS DERIVED FROM  
 L.A.N.L. DRAWINGS C-31714, C-31715, C-31716,  
 C-31717 AND SITE VISIT.

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-208 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	6-26-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
CLASSIFICATION		REVIEWER	DATE
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-38	FIGURE 6	
		SHEET	1 OF 1



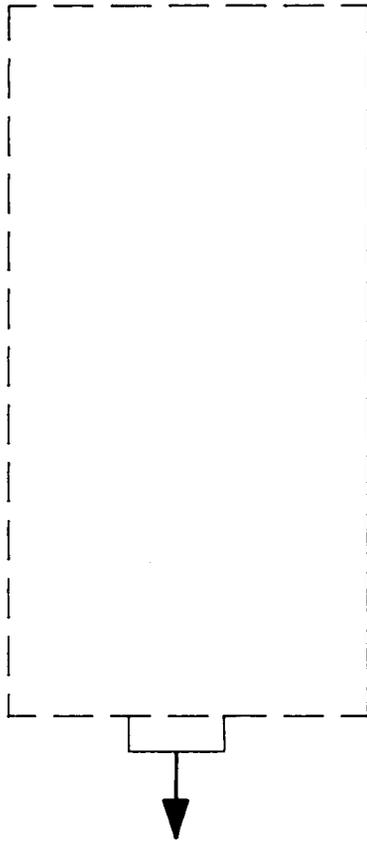
SYMBOL LEGEND	
A/C	AIR CONDITIONER UNIT
FD	FLOOR DRAIN
LV	LAVATORY
SD	SINK DRAIN
TD	TRENCH DRAIN
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN
WH	WATER HEATER

⊙ DYE TESTED DRAIN

**NOTE:**

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-36460, C-36461, C-36462, C-36466 AND SITE VISIT.

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-316 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	6-26-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b> Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	
REQUESTING GROUP	11056-38	FIGURE 7	
EM-8		REV.	



3-1522-OPN-1  
CONDENSATE

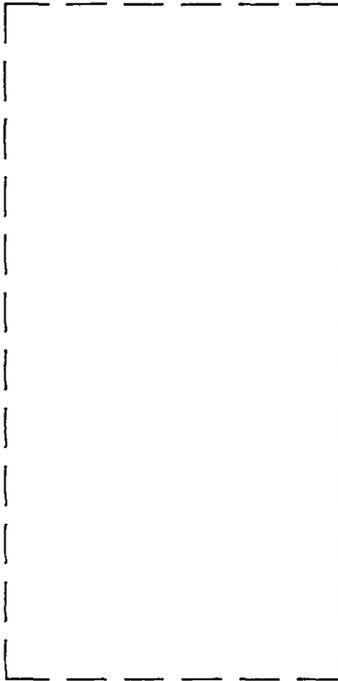
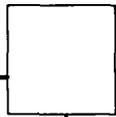


NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM A SITE VISIT.

SANTA FE ENGINEERING, LTD.			
<b>TA3-1522 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	6-26-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b> Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-38	FIGURE 8	

3-1538-OPN-1  
CONDENSATE



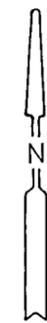
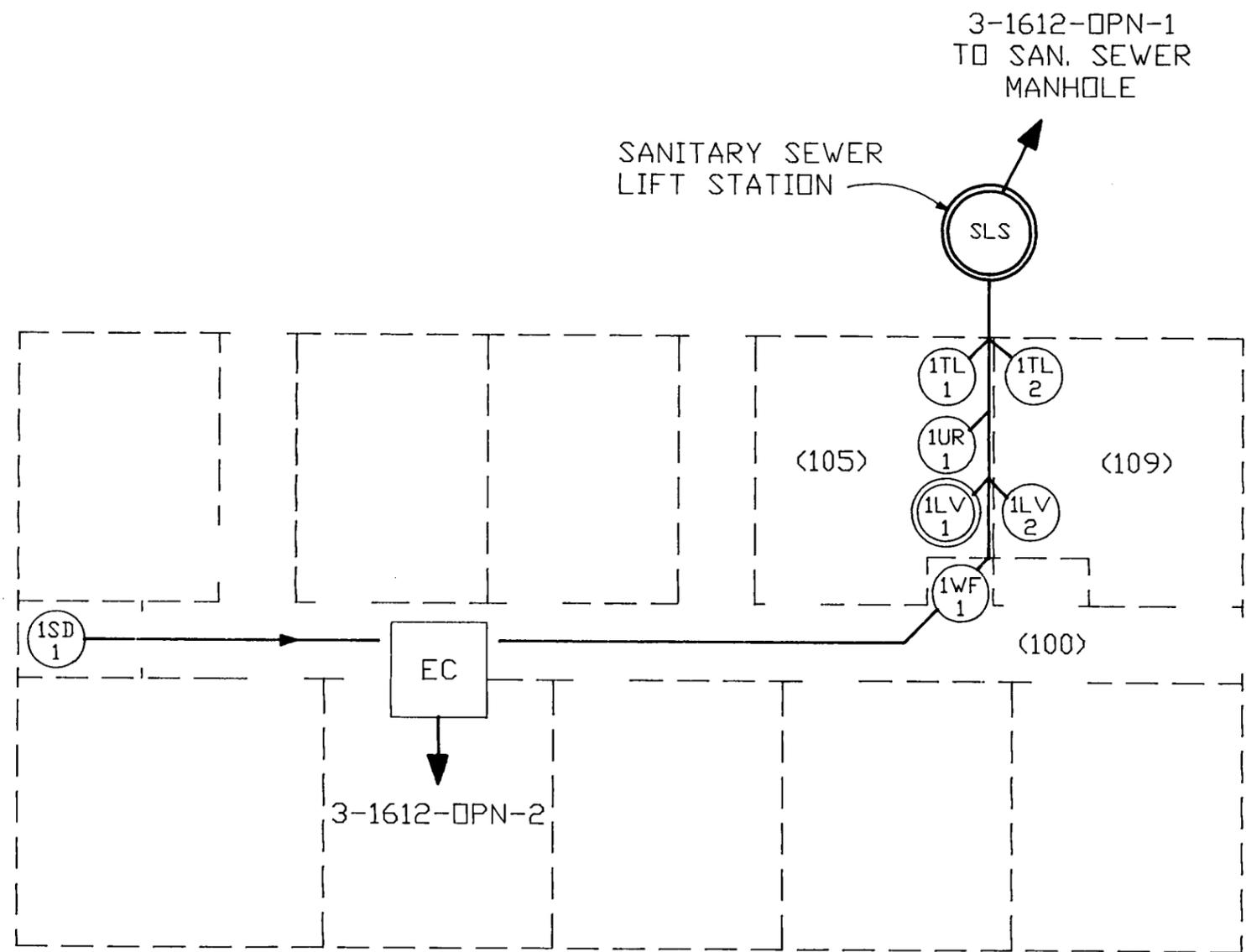
MECHANICAL AIR  
CONDITIONING UNIT.



NOTE:

THIS DRAWING WAS DERIVED  
FROM A SITE VISIT.

SANTA FE ENGINEERING, LTD.				
<b>TA3-1538 DRAIN SCHEMATIC</b>	DRAWN	M.E.W.		
	DESIGN	M.E.W.		
	CHECKED	P.E.B.		
	DATE	6-26-92		
SUBMITTED	RECOMMENDED	APPROVED		
<b>Los Alamos</b>	Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET	1 OF 1
	CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.	
REQUESTING GROUP EM-8	11056-38	FIGURE 9		

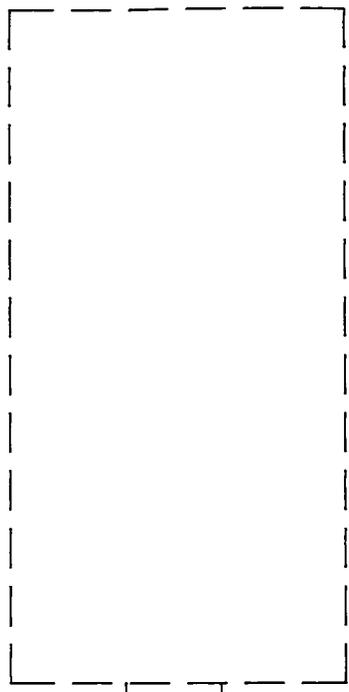


SYMBOL LEGEND	
EC	EVAPORATIVE COOLER
LV	LAVATORY
SD	SINK DRAIN
SLS	SAN. SEWER LIFT STA.
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN

○ DYE TESTED DRAIN

NOTE:  
THIS DRAWING WAS DERIVED FROM  
L.A.N.L. DRAWINGS C-44753 AND  
SITE VISIT.

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-1612 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	6-26-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b> Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-38	<b>FIGURE 10</b>	



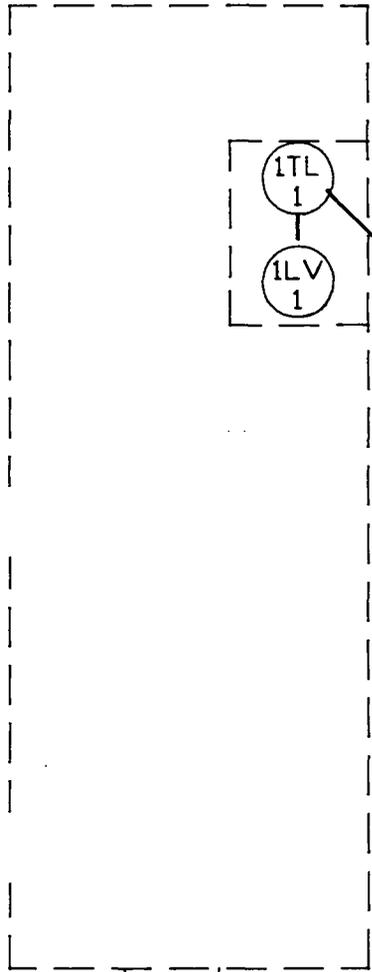
WALL MTD. MECH.  
COOLING UNIT.

3-1730-OPN-1  
CONDENSATE

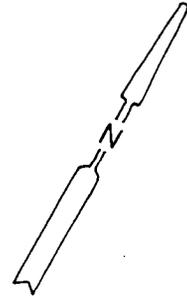
NOTE:

THIS DRAWING WAS DERIVED FROM  
A SITE VISIT.

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-1730 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	6-26-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
		SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-38	FIGURE 11	



3-1731-OPN-1  
TO SAN. SEWER  
MANHOLE



WALL MTD. AIR  
CONDITIONING  
UNIT.

3-1731-OPN-2  
CONDENSATE

### SYMBOL LEGEND

TL	TOILET
LV	LAVATORY

**NOTE:**

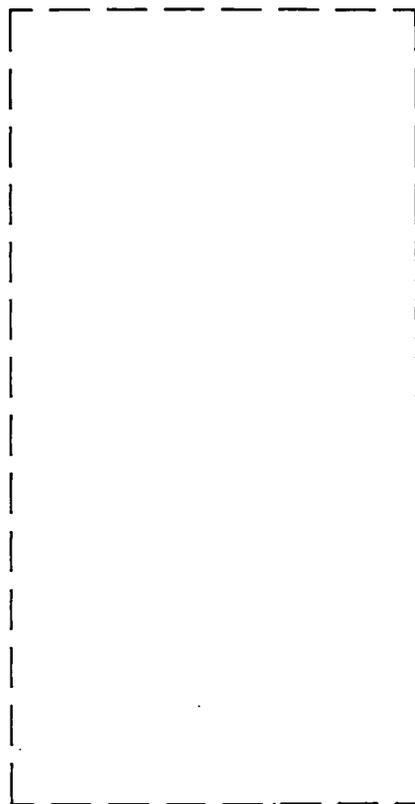
THIS DRAIN SCHEMATIC WAS DERIVED  
FROM SITE VISIT.

### SANTA FE ENGINEERING, LTD.

## TA3-1731 DRAIN SCHEMATIC

DRAWN	M.E.W.
DESIGN	M.E.W.
CHECKED	P.E.B.
RELEASED	
DATE	6-26-92

SUBMITTED	RECOMMENDED	APPROVED	SHEET 1 OF 1	
<b>Los Alamos</b> Los Alamos National Laboratory Los Alamos, New Mexico 87545			DATE	
CLASSIFICATION	REVIEWER	DRAWING NO.		
REQUESTING DIVISION	LAB JOB NO.			
REQUESTING GROUP	11056-38	FIGURE 12		
EM-8				



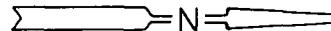
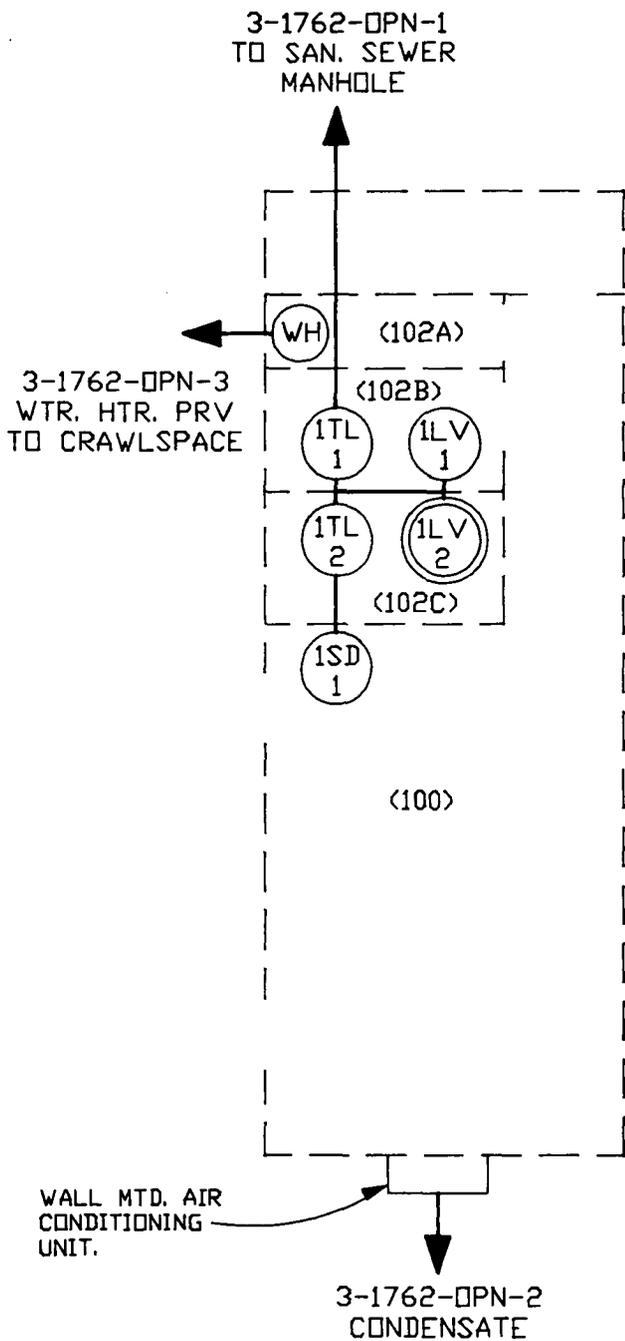
3-1734-OPN-1  
CONDENSATE



**NOTE:**

THIS DRAIN SCHEMATIC WAS DERIVED FROM A SITE VISIT.

<b>SANTA FE ENGINEERING, LTD.</b>				
<b>TA3-1734 DRAIN SCHEMATIC</b>			DRAWN	M.E.W.
			DESIGN	M.E.W.
			CHECKED	P.E.B.
			DATE	6-26-92
SUBMITTED		RECOMMENDED	APPROVED	
<b>Los Alamos</b> Los Alamos National Laboratory Los Alamos, New Mexico 87545			SHEET	1 OF 1
CLASSIFICATION	REVIEWER	DATE		
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.	
REQUESTING GROUP EM-8	11056-38	FIGURE 13		



SYMBOL LEGEND	
SD	SINK DRAIN
LV	LAVATORY
TL	TOILET
WH	WATER HEATER

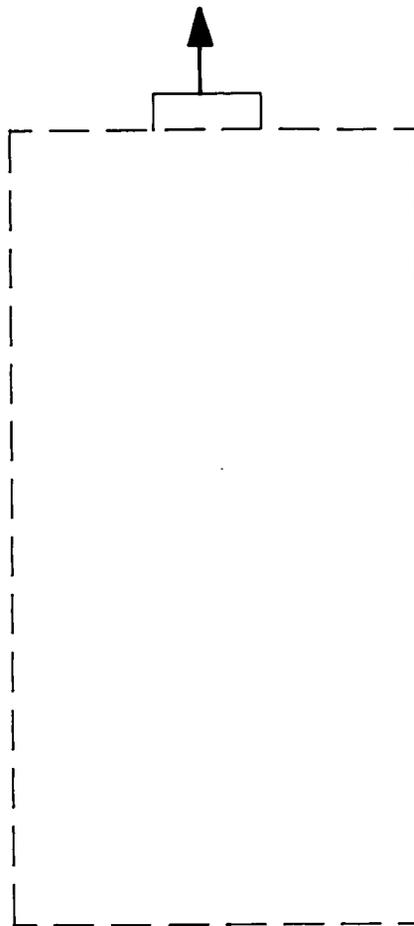

 DYE TESTED DRAIN

**NOTE:**

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISIT.

SANTA FE ENGINEERING, LTD.			
<b>TA3-1762 DRAIN SCHEMATIC</b>		DRAWN	M.E.W.
		DESIGN	M.E.W.
		CHECKED	P.E.B.
		DATE	6-26-92
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
CLASSIFICATION	REVIEWER	DATE	SHEET 1 OF 1
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP	11056-38	FIGURE 14	

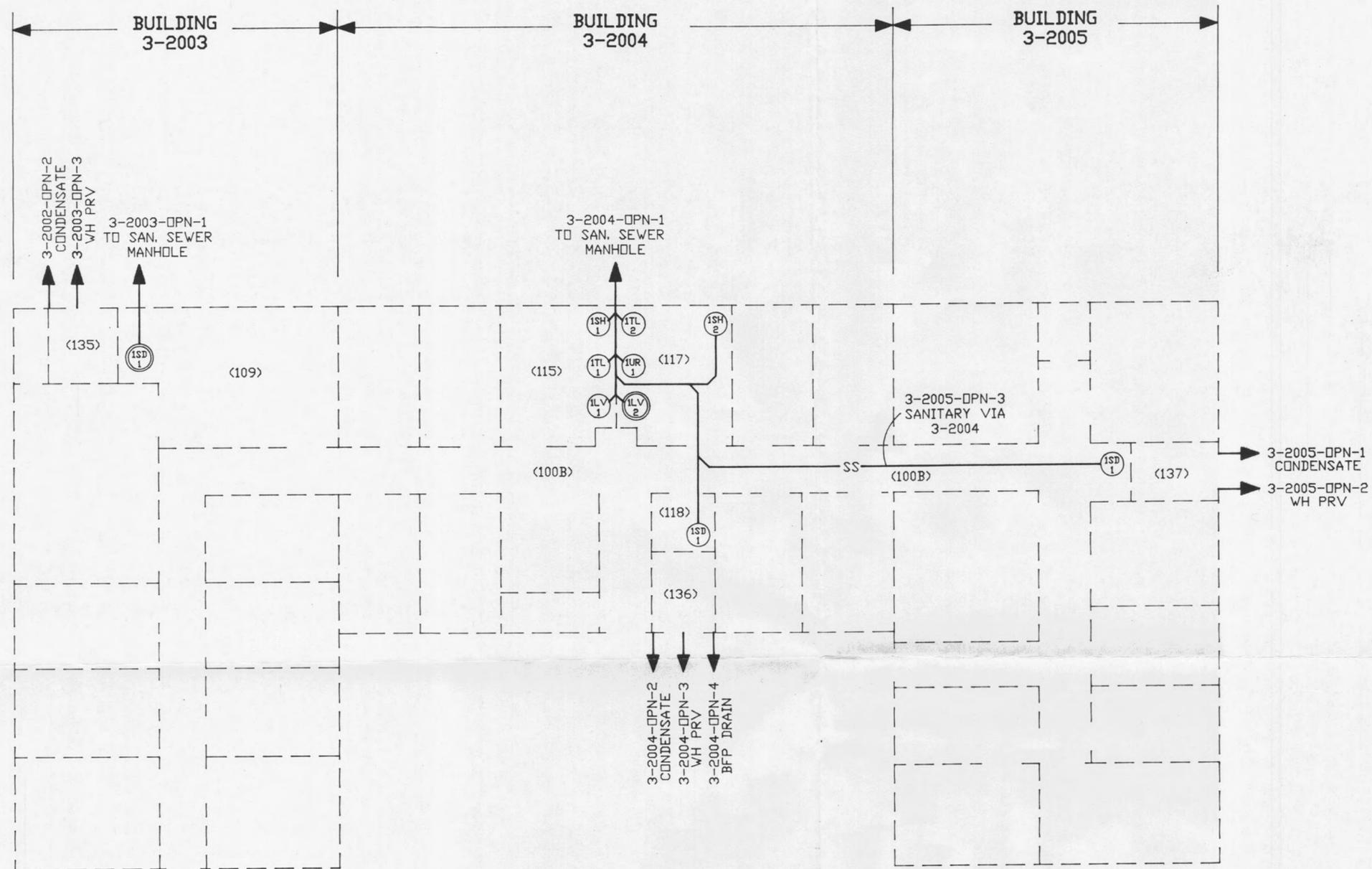
3-1898-OPN-1  
CONDENSATE



**NOTE:**

THIS DRAIN SCHEMATIC WAS DERIVED FROM A SITE VISIT.

<b>SANTA FE ENGINEERING, LTD.</b>				
<b>TA3-1898 DRAIN SCHEMATIC</b>			DRAWN	M.E.W.
			DESIGN	M.E.W.
			CHECKED	P.E.B.
			DATE	6-26-92
SUBMITTED		RECOMMENDED	APPROVED	
<b>Los Alamos</b>			Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET 1 OF 1
CLASSIFICATION		REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.	
REQUESTING GROUP EM-8	11056-38	FIGURE 15		

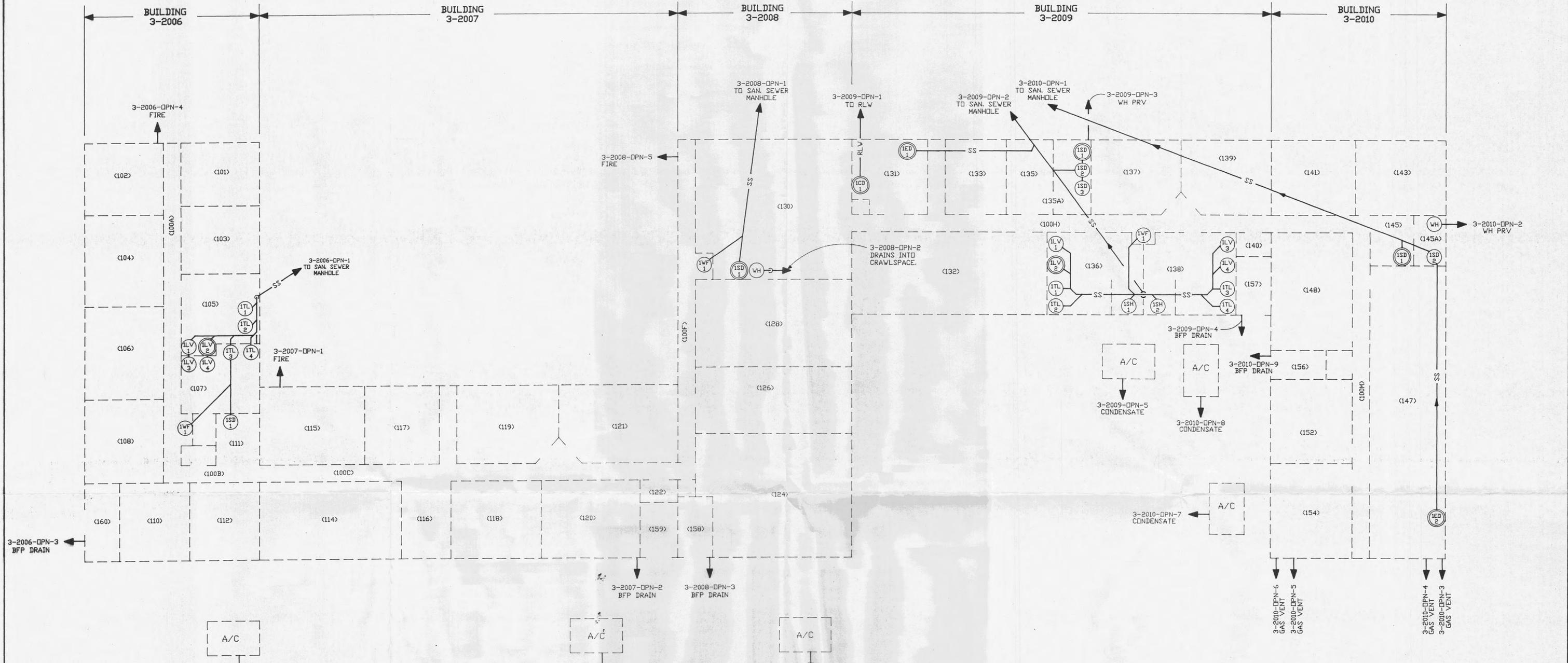


SYMBOL LEGEND	
LV	LAVATORY
SD	SINK DRAIN
SH	SHOWER
—SS—	SANITARY SEWER PIPE
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN

○ DYE TESTED DRAIN

NOTE:  
THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L.  
DRAWINGS C-45723, C-45765 AND SITE VISIT.

<b>SANTA FE ENGINEERING, LTD.</b>			
<b>TA3-2003,2004 AND 2005 DRAIN SCHEMATIC</b>		DRAWN M.E.W. DESIGN M.E.W. CHECKED P.E.B. DATE 6-26-92	
SUBMITTED	RECOMMENDED	APPROVED	
<b>Los Alamos</b>		Los Alamos National Laboratory Los Alamos, New Mexico 87545	SHEET 1 OF 1
CLASSIFICATION	REVIEWER	DATE	
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP	11056-38	FIGURE 16	
EM-8			



**SYMBOL LEGEND**

A/C	MECH. COOLING UNIT
AW	ACID WASTE PIPE
BFP	BACKFLOW PREVENTER
CD	CUP DRAIN (FUME HOOD)
ED	EYE WASH DRAIN
LV	LAVATORY
PRV	PRESS. REDUCING VALVE
RLW	RAD. LIQUID WASTE PIPE
SD	SINK DRAIN
SH	SHOWER
SS	SANITARY SEWER PIPE
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN
WH	WATER HEATER

○ DYE TESTED DRAIN

**NOTE:**  
THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-46724, C-45767, C-45942 AND SITE VISIT.

**SANTA FE ENGINEERING, LTD.**

**TA3-2006,2007,2008, 2009 AND 2010 DRAIN SCHEMATIC**

DRAWN	M.E.W.
DESIGN	M.E.W.
CHECKED	P.E.B.
DATE	6-26-92

SUBMITTED	RECOMMENDED	APPROVED
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**Los Alamos** Los Alamos National Laboratory  
Los Alamos, New Mexico 87545

CLASSIFICATION	REVIEWER	DATE
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.
REQUESTING GROUP	11056-38	FIGURE 17

SHEET 1 OF 1

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