



Final

STORMWATER POLLUTION PREVENTION PLAN



**Marine Corps Installations East -
Marine Corps Base Camp Lejeune &
Marine Corps Air Station New River**



Naval Facilities Engineering Systems Command Mid-Atlantic

Contract: N62470-19-D-4001 | Task Order: N4008520F6173

September 2021

Final

STORMWATER POLLUTION PREVENTION PLAN

MARINE CORPS BASE CAMP LEJEUNE & MARINE CORPS AIR STATION NEW RIVER, NORTH CAROLINA

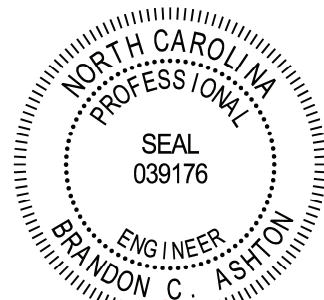
Prepared For:

**NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MID-ATLANTIC
NORFOLK, VA 23511**

Contracting Officer's Representative: Dialis B. Figueroa Arriaga

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**Brandon
C. Ashton** Digitally signed by
Brandon C. Ashton
Date: 2021.09.23
15:27:07 -04'00'

AH Environmental Consultants, Inc.

11837 Rock Landing Drive, Suite 300
Newport News, Virginia 23606
(757) 873-4959
NC Firm License No. C-2415



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ACRONYMS AND ABBREVIATIONS

< 90-day	less than 90-day
AB	Amphibious Base (outfall ID)
AH	AH Environmental Consultants, Inc.
AS	Air Station (outfall ID))
AST	aboveground storage tank
AWWTP	Advanced Wastewater Treatment Plant
BMP	best management practice
CAMLEJ	Camp Lejeune
CAMLEJO	Camp Lejeune Order
CB	Courthouse Bay (outfall ID)
CETEP	Comprehensive Environmental Training & Education Program
CFR	Code of Federal Regulations
CJ	Camp Johnson (outfall ID)
CWA	Clean Water Act
DEMLR	Division of Energy, Mineral, and Land Resources
DEQ	Department of Environmental Quality
DLADS	Defense Logistics Agency Disposition Services
DoD	Department of Defense
E&SC	Erosion and Sediment Control
ECB	Environmental Compliance Branch
ECC	Environmental Compliance Coordinator
ECO	Environmental Compliance Officer
ECPSOP	Environmental Compliance & Protection Standard Operating Procedure
eLMS	Environmental Learning Management System
EMD	Environmental Management Division
EPA	Environmental Protection Agency
FC	Frenchs Creek (FC)
FRP	Facility Response Plan
GIS	Geographic Information Systems



STORMWATER POLLUTION PREVENTION PLAN
MCIEAST-MCB CAMLEJ

ACRONYMS AND ABBREVIATIONS

HM	hazardous material
HP	Hadnot Point (outfall ID)
HQW	high quality waters
HW	hazardous waste
HWCP	Hazardous Waste Contingency Plan
HWMP	Hazardous Waste Management Plan
ID	identifier
IPMP	Integrated Pest Management Plan
ISWMP	Integrated Solid Waste Management Plan
JP	jet propellant
LF	Landfill (outfall ID)
MCAS	Marine Corps Air Station
MCB	Marine Corps Base
MCIEAST	Marine Corps Installations East
MGD	million gallons per day
mg/L	milligrams per liter
MOGAS	motor fuel gasoline
MS4	municipal separate storm sewer system
MSW	municipal solid waste
N/A	not applicable
NAVFAC MIDLANT	Naval Facilities Engineering Systems Command Mid-Atlantic
NC	North Carolina
NH	Naval Hospital (outfall ID)
NPDES	National Pollutant Discharge Elimination System
NSW	nutrient sensitive waters
OH	Old Hospital (outfall ID)
OWS	oil/water separator
PAS	pollution abatement system
Permit	NPDES Permit NCS000290
POL	petroleum, oil, and lubricant
PWD	Public Works Department



**STORMWATER POLLUTION PREVENTION PLAN
MCIEAST-MCB CAMLEJ**

ACRONYMS AND ABBREVIATIONS

QRP	Qualified Recycling Program
RCRA	Resource Conservation and Recovery Act
RR	Rifle Range (outfall ID)
SAA	satellite accumulation area
SIC	Standard Industrial Classification
SOP	standard operating procedure
SPCC	spill prevention, control, and countermeasure
SR	Sandy Run (outfall ID)
SWMP	Stormwater Management Plan
SWOMP	Stormwater Outfall Monitoring Plan
SWPPC	Stormwater Pollution Prevention Committee
SWPPM	Stormwater Pollution Prevention Manager
SWPPP	Stormwater Pollution Prevention Plan
TC	Camp Geiger (outfall ID)
TMDL	Total Maximum Daily Load
TSDF	treatment, storage, or disposal facility
US	United States
USMC	United States Marine Corps
UST	underground storage tank
UT	unnamed tributary
VOP	visual observation point
WC	Wallace Creek (outfall ID)



**STORMWATER POLLUTION PREVENTION PLAN
MCIEAST-MCB CAMLEJ**

ACRONYMS AND ABBREVIATIONS

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CERTIFICATION OF STORMWATER POLLUTION PREVENTION PLAN

I certify under penalty of law that this Stormwater Pollution Prevention Plan 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.

Director, Environmental Management Division
Marine Corps Installations East – Marine Corps Base
Camp Lejeune, North Carolina

Date



**STORMWATER POLLUTION PREVENTION PLAN
MCIEAST-MCB CAMLEJ**

CERTIFICATION

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RECORD OF REVISIONS AND AMENDMENTS

All revisions and amendments to the Stormwater Pollution Prevention Plan are and will continue to be summarized in the following table. The Stormwater Pollution Prevention Plan Manager will be responsible for maintaining an updated copy of this plan at all times.

Table X-1 Record of Revisions and Amendments

Date	Organization Responsible for Revision/Amendment	Reviewing Organization	Description of Revision/Amendment
March 1993	Sirrine Environmental Consultants	MCIEST-MCB CAMLEJ Environmental Management Division	Stormwater Discharge Studies and Permit Application
February 2002	AMEC Earth & Environmental, Inc.	MCIEST-MCB CAMLEJ Environmental Management Division	Stormwater Pollution Prevention Plan
March 2013	AH Environmental Engineering, PC	MCIEST-MCB CAMLEJ Environmental Management Division	Updated Stormwater Pollution Prevention Plan
September 2021	AH Environmental Consultants, Inc.	MCIEST-MCB CAMLEJ Environmental Management Division	Updated Stormwater Pollution Prevention Plan



**STORMWATER POLLUTION PREVENTION PLAN
MCIEAST-MCB CAMLEJ**

**RECORD OF
REVISIONS AND AMENDMENTS**

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EXECUTIVE SUMMARY

The National Pollutant Discharge Elimination System (NPDES) program was established under the authority of the Federal Clean Water Act (CWA) of 1972. Phase I of the NPDES stormwater program, established in 1990, focused on pollutant source reduction through site planning and responsible operational and procedural practices. Phase I covered industrial activities defined by Title 40 of the United States (US) Code of Federal Regulations (CFR) 122.26 (b)(14), construction activities that disturbed five acres or more, and municipalities with populations of 100,000 or more that owned and operated a municipal separate storm sewer system (MS4). Phase II of the program expanded coverage to construction activities that disturbed one acre or more and any publicly owned and operated MS4. In North Carolina (NC), the NPDES stormwater program is administered by the NC Department of Environmental Quality (DEQ), Division of Energy, Mineral and Land Resources (DEMLR).

NC DEQ issued Marine Corps Installations East - Marine Corps Base Camp Lejeune (MCIEAST-MCB CAMLEJ) NPDES permit number NCS000290. The NPDES permit authorizes the point source discharge of stormwater runoff and permit-specified non-stormwater discharges from MCIEAST-MCB CAMLEJ to the receiving waters specified in the permit. In addition, the permit authorizes the continued operation of oil/water separators (OWSs) that discharge, either directly or via a bypass structure, to the MCIEAST-MCB CAMLEJ storm sewer system or the receiving waters specified in the permit. The permit includes requirements established under Phase I and Phase II of the NPDES program.

The MCIEAST-MCB CAMLEJ NPDES permit requires development, maintenance, and implementation of a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP must encompass each regulated industrial activity at MCIEAST-MCB CAMLEJ (as defined in the NPDES permit and in 40 CFR 122.26 (b)(14)).



E.1 UPDATED STORMWATER POLLUTION PREVENTION PLAN

The Naval Facilities Engineering Systems Command Mid-Atlantic Division (NAVFAC MIDLANT) contracted AH/BC Navy JV, LLC (operating in NC as AH Environmental Consultants, Inc. [AH]), under contract N62470-19-D-4001 (delivery order N4008520F6173), to update the SWPPP for MCIEAST-MCB CAMLEJ.

This document incorporates the requirements of the MCIEAST-MCB CAMLEJ NPDES permit into a comprehensive SWPPP that includes each regulated industrial activity aboard MCIEAST-MCB CAMLEJ and the potential pollutant sources located therein. A list of regulated industrial activities occurring at MCIEAST-MCB CAMLEJ is provided below:

- Ground transportation operations
- Air transportation operations
- Water transportation operations
- Bulk fuel storage and transfer
- Hazardous material treatment, storage, or disposal
- Recycling and scrap/salvage
- Wastewater treatment works
- Landfills
- Warehousing and storage
- Wood product manufacturing

The following potential stormwater pollution sources were field assessed at each industrial activity and incorporated into the SWPPP:

- Outdoor aboveground storage tanks
- Outdoor hazardous material (HM)/hazardous waste (HW) management areas
- Outdoor material storage areas (including dumpsters)
- Outdoor liquid transfer areas
- OWSs

The SWPPP outlines best management practices (BMPs) currently in place at MCIEAST-MCB CAMLEJ to protect receiving streams and watercourses from adverse water quality impacts resulting from chemical spills and/or contaminated stormwater runoff. BMPs are categorized as follows:



- Structural BMP: typically, an engineering solution to stormwater management (e.g., concrete secondary containment structure)
- Non-structural BMP: no associated physical structure – achieves stormwater management through education and modification of procedural practices

E.2 SUMMARY OF CHANGES TO THE SWPPP

The October 2020 – April 2021 SWPPP field assessments conducted by AH identified 175 facilities at MCIEAST-MCB CAMLEJ and MCAS New River currently engaging in regulated industrial activity as defined by the NPDES permit. Based on the field assessments, AH made several changes to the SWPPP. Table ES-1 summarizes the facilities that were removed from the SWPPP and are no longer considered regulated industrial activities. This table also summarizes the facilities that were added to the SWPPP as new regulated industrial activities.

Table ES-1 Facilities Added and Removed from SWPPP

Facility Number	Description / Comments	Regulated Activity
Facilities Removed from SWPPP		
80	Facility is now a dental clinic (not a regulated industrial activity).	Previously Printing and Publishing, Miscellaneous Publishing (Standard Industrial Classification [SIC] Code 2741)
322	Warehouse has been demolished.	Previously General Warehousing and Storage (SIC Code 4225)
626	This facility is a groundwater remediation facility only (not a regulated industrial activity) and is not a HM treatment, storage, or disposal facility (TSDF).	Previously HM TSDF (no associated SIC Code)
626	This facility is a groundwater remediation facility only (not a regulated industrial activity) and is not a hazardous material treatment, storage, or disposal facility.	Previously Hazardous Material Treatment, Storage, or Disposal Facilities (no associated SIC Code)
1118	Deleted the individual entry for Building 1118. This facility has been combined into one facility with Building 1012. The facility number is 1012, and there is no longer a reference to Building 1118.	Previously General Warehousing and Storage (SIC Code 4225)
1404	This is a former Navy Boat Crew facility (included Buildings 1409 and 1410). This compound was vacant at the time of inspection (11/20/2020).	Previously Boat Building and Repairing (SIC Code 3732)
1606	Facility used to include general warehousing activities. This building is now used as a retail ServMart.	Previously General Warehousing and Storage (SIC Code 4225)



Table ES-1 Facilities Added and Removed from SWPPP (continued)

Facility Number	Description / Comments	Regulated Activity
Facilities Removed from SWPPP (continued)		
1700	The main-side central steam plant has been demolished, and there is no planned replacement for the steam plant.	Previously Steam Generating Facilities (Coal Handling Sites – no associated SIC Code)
1771	Facility is no longer a vehicle maintenance facility. Facility now maintains “small unmanned aerial systems.”	Previously Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (SIC Code 4231)
AS114	Facility is now a recreational gear issue/storage facility (not a regulated industrial facility).	Previously General Warehousing and Storage (SIC Code 4225)
AS123	This facility is inactive and only being used as contactor laydown.	Previously Recycling and Scraps/Salvage (no associated SIC Code)
AS148	This is the fuels lab that is adjacent to the MCAS fuel farm. This lab is not considered a regulated industrial activity.	Previously Petroleum Bulk Stations and Terminals (SIC Code 5171)
AS4225	These facilities have been repurposed and are now a combat engineer storage facility (not a regulated industrial activity).	Previously HM TSDFs (no associated SIC Code)
AS4230		
BB246	The Courthouse Bay marine facility has been demolished, and there is no planned replacement for the marina.	Previously Marinas (SIC Code 4493)
H17N	Facility has been repurposed and is now a training facility.	Previously Printing and Publishing, Miscellaneous Publishing (SIC Code 2741)
SM87 & SM93	These facilities were included as standalone facilities in the previous version of the SWPPP. They are part of the Building M90 activity; therefore, these structures are now attributed to Building M90 in the SWPPP.	Previously HM TSDFs (no associated SIC Code)
TC611	Building has been demolished.	Previously Recycling and Scraps/Salvage (no associated SIC Code)
TC760 & TC761	Both facilities have been damaged beyond repair and are no longer in service.	Previously General Warehousing and Storage (SIC Code 4225)
TC942	Facility is empty and inactive.	Previously General Warehousing and Storage (SIC Code 4225)
Facilities Added to SWPPP		
25	New vehicle maintenance facility.	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (SIC Code 4231)
901	New warehouse facility.	General Warehousing and Storage (SIC Code 4225)
1002	New scrap recycling/storage yard across from the solid waste landfill.	Recycling and Scraps/Salvage (no associated SIC Code)
1047	New boat maintenance facility.	Boat Building and Repairing (SIC Code 3732)
1405	Facility is now a small vehicle maintenance facility.	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (SIC Code 4231)



Table ES-1 Facilities Added and Removed from SWPPP (continued)

Facility Number	Description / Comments	Regulated Activity
Facilities Added to SWPPP (continued)		
1461	New warehouse facilities.	General Warehousing and Storage (SIC Code 4225)
1462		
1464		
1465		
1470	New facility that is currently unoccupied, but equipped with indoor maintenance bays (including floor drains that discharge to an OWS) and outdoor vehicle storage areas. Facility was added due to potential vehicle maintenance activities in the future.	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (SIC Code 4231)
AS265	Aircraft maintenance hangar that was not included in previous SWPPP.	Airports, Flying Fields, and Airport Terminal Services (SIC Code 4581)
AS514	New aircraft painting facility.	Airports, Flying Fields, and Airport Terminal Services (SIC Code 4581)
AS890	New aircraft maintenance hangar.	Airports, Flying Fields, and Airport Terminal Services (SIC Code 4581)
AS3534	Facility is now a small vehicle maintenance facility.	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (SIC Code 4231)
AS4109	New aircraft maintenance hangar.	Airports, Flying Fields, and Airport Terminal Services (SIC Code 4581)
BB360	Facility is the new Courthouse Bay combat engineer facility (includes Buildings BB361 and BB362).	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (SIC Code 4231)
G484	New warehouse facilities.	General Warehousing and Storage (SIC Code 4225)
G485		
G865	New warehouse facility.	General Warehousing and Storage (SIC Code 4225)
M287 & adjacent warehouse under construction	New warehouse facilities. The warehouse adjacent to M287 does not have a building identifier (ID) yet (currently under construction).	General Warehousing and Storage (SIC Code 4225)
WC501	New vehicle maintenance facility.	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (SIC Code 4231)
WC512	New warehouse facility.	General Warehousing and Storage (SIC Code 4225)

Table ES-2 summarizes changes to the outfall monitoring program as a result of the added and removed regulated facilities summarized above in Table ES-1.



Table ES-2 Changes to Regulated Industrial Stormwater Outfalls

Outfall ID*	Monitoring Status	Comments
Existing Outfalls Reclassified as Non-Industrial (<i>Monitoring No Longer Required</i>)		
OHP-020	Former Visual	Building 80 is no longer a printing and publishing facility. There are no other regulated facilities within the drainage basin, which allows the outfall to be reclassified as non-industrial.
OOH-001	Former Visual	Building H17N is no longer a regulated industrial facility (formerly printing and publishing facility). There are no other regulated facilities within the drainage basin, which allows the outfall to be reclassified as non-industrial.
OTC-008	Former Visual	Building TC942 is an inactive/vacant facility (formerly a general warehousing facility). There are no other regulated facilities within the drainage basin, which allows the outfall to be reclassified as non-industrial.
OWF-002	Former Visual	Building 626 is a groundwater remediation facility and is not a regulated industrial activity. There are no other regulated facilities within the drainage basin, which allows the outfall to be reclassified as non-industrial.
Existing Outfalls Reclassified as Regulated Industrial (<i>New Monitoring Requirements</i>)		
OAS-008	New Visual	A portion of Building AS890 (new aircraft maintenance hangar) discharges to this outfall.
OAS-010	New Visual	A portion of Building AS890 (new aircraft maintenance hangar) discharges to this outfall.
OAS-037	New Visual	Building AS2800 (MCAS New River marina) discharges to this outfall.
OCJ-003	New Visual	Building M287 (general warehousing facility) and the adjacent warehouse facility that is under construction both discharge to this outfall.
OHP-007	New Visual	Buildings 1101, 1108, and 1202 (general warehousing facilities) discharge to this outfall.
OHP-014	New Visual	Building 575 (vehicle maintenance facility) discharges to this outfall.
OHP-027	New Visual	Building 25 (vehicle maintenance facility) discharges to this outfall.
OOH-008	New Visual	Building 198 (Gottschalk marina) discharges to this outfall.
OTC-002B	New Visual	Building G484 (general warehousing facility) discharges to this outfall.
Newly Delineated Outfalls Classified as Regulated Industrial (<i>New Monitoring Requirements</i>)		
OCB-016	New Visual	The new Courthouse Bay combat engineer facility (includes Buildings BB360, BB361, and BB362) discharges to this newly delineated outfall.
OHP-042	New Visual	Buildings 1461, 1462, 1463, 1464, and 1465 (general warehousing facilities) discharge to this newly delineated outfall.
OHP-043	New Visual	Building 1047 (boat maintenance facility) discharges to this newly delineated outfall.
OHP-044	New Visual	Building 1047 (boat maintenance facility) discharges to this newly delineated outfall.
OHP-045	New Visual	Building 1002 and the associated scrap recycling/storage yard across from the solid waste landfill discharges to this newly delineated outfall.
OTC-002	New Visual	Building G485 (general warehousing facility) discharges to this newly delineated outfall.
OWC-004	New Visual	Building WC501 (vehicle maintenance facility) discharges to this newly identified outfall.
OWC-005	New Visual	Building WC512 (vehicle maintenance facility) discharges to this newly identified outfall.

*The following abbreviations apply for outfall IDs: AS = Air Station, TC = Camp Geiger, CJ = Camp Johnson, CB = Courthouse Bay, HP = Hadnot Point, OH = Old Hospital, and WC = Wallace Creek



E.3 RECOMMENDATIONS

AH assigned a stormwater pollution potential rating of low, medium, or high to each potential pollutant source based on observations made during the SWPPP field assessments. The definitions for each risk category are as follows:

- Low - Low risk of stormwater exposure and/or environmental impairment, unlikely to result in any measurable impact. No BMPs or additional BMPs warranted.
- Medium - Potential risk and/or limited exposure to stormwater runoff, possible environmental impacts through widespread common occurrences of specific risks. BMPs or additional BMPs may be appropriate.
- High - Raw material or polluting liquid exposed to stormwater; not necessarily an indicator of current environmental damage, however, situation requires implementation of corrective actions and/or BMPs to prevent measurable impact to stormwater. New BMPs or additional BMPs always warranted.

Appendix I (Prediction of Industrial Discharges), which is maintained separate from the SWPPP by the Stormwater Pollution Prevention Manager (SWPPM), summarizes potential pollution sources applicable to the SWPPP that have been assigned a risk category of "medium" or "high." 58 potential pollution sources meet these criteria as a result of the 2021 SWPPP update. Appendix I provides recommended BMPs (structural and/or non-structural) or corrective actions for each. Additional recommendations are as follows:

- **Education and Training:** Although MCIEAST-MCB CAMLEJ provides several training programs for pollution prevention, the deficiencies observed during the SWPPP field assessments of facilities engaging in regulated industrial activities could generally be corrected through more widespread education and training. A noteworthy obstacle to more widespread education and training is the rapid changing nature of facilities and military personnel at MCIEAST-MCB CAMLEJ.
- **Solid Waste Management:** Pollution prevention practices for solid waste management, as outlined in current Base Orders and Standard Operating Procedures, should be followed. During the SWPPP assessments, field crews observed the following recurring deficiencies with solid waste dumpsters:
 - Top cover open, broken, or missing
 - Side doors open
 - Drain plugs broken or missing



**STORMWATER POLLUTION PREVENTION PLAN
MCIEAST-MCB CAMLEJ**

EXECUTIVE SUMMARY

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1. INTRODUCTION

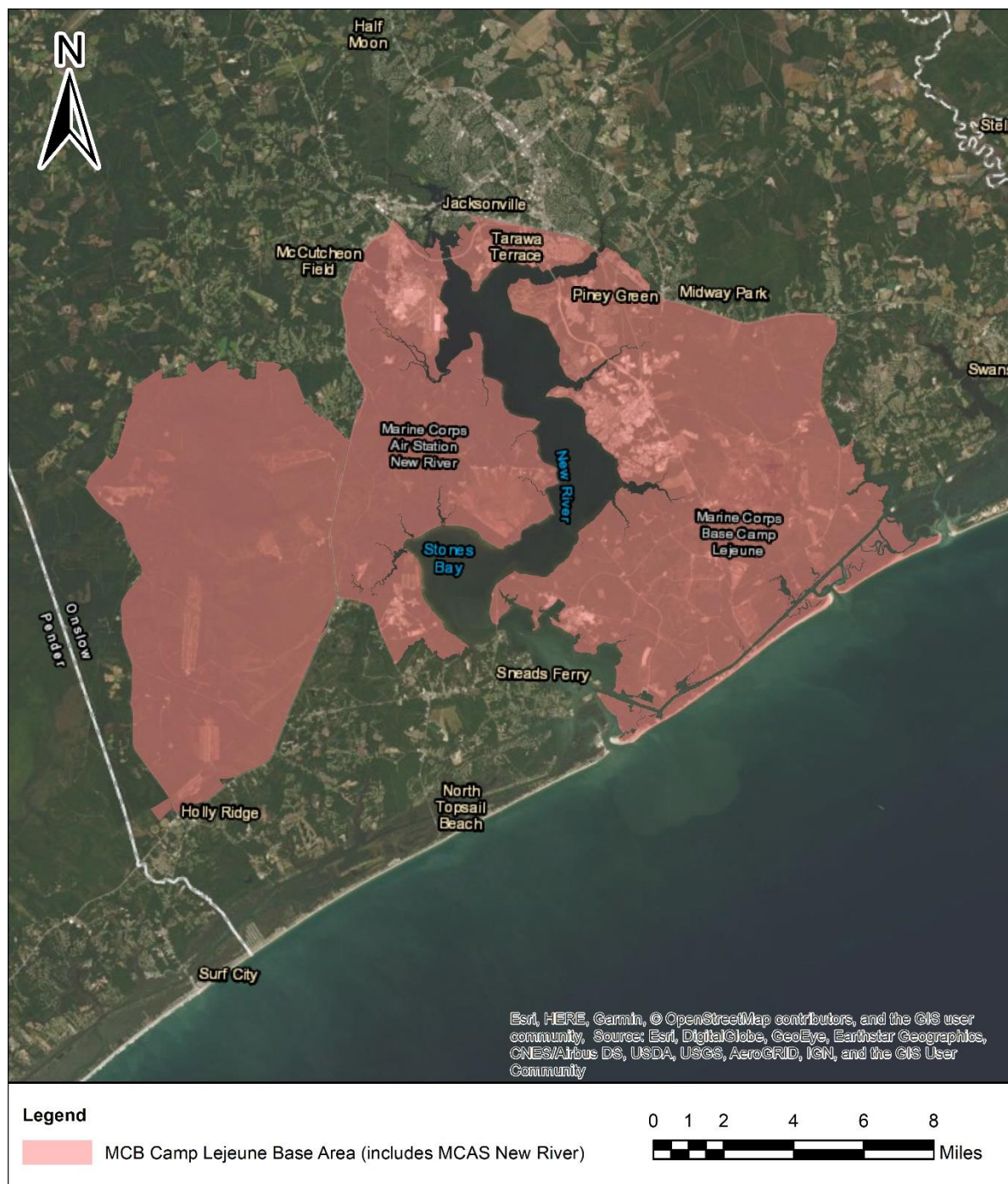
The Naval Facilities Engineering Systems Command Mid-Atlantic Division (NAVFAC MIDLANT) contracted AH/BC Navy JV, LLC (operating in North Carolina (NC) as AH Environmental Consultants, Inc. [AH]), under contract N62470-19-D-4001 (delivery order N4008520F6173), to update the Stormwater Pollution Prevention Plan (SWPPP) for Marine Corps Installations East - Marine Corps Base Camp Lejeune (MCIEAST – MCB CAMLEJ).

1.1 BACKGROUND

MCIEAST-MCB CAMLEJ (including Marine Corps Air Station [MCAS] New River) occupies approximately 156,000 acres including roughly 11 miles of beaches. MCIEAST-MCB CAMLEJ operates a 15 million gallons per day advanced wastewater treatment plant, four water treatment plants, and a Subtitle D municipal solid waste landfill. The installation supports a population of active duty, dependent, retiree, and civilian employees numbering approximately 170,000. MCIEAST-MCB CAMLEJ and MCAS New River share various facilities and have common infrastructure and utilities; many aspects of the installations' administration and management overlap; as such, this SWOMP covers both installations. Figure 1-1 provides a vicinity map for MCIEAST-MCB CAMLEJ.



Figure 1-1 MCIEAST-MCB CAMLEJ Vicinity Map





1.2 STORMWATER DISCHARGE PERMIT

The National Pollutant Discharge Elimination System (NPDES) program was established under the authority of the Federal Clean Water Act (CWA) of 1972. Phase I of the NPDES stormwater program, established in 1990, focused on pollutant source reduction through site planning and responsible operational and procedural practices. Phase I covered industrial activities defined by Title 40 of the United States (US) Code of Federal Regulations (CFR) 122.26 (b)(14), construction activities that disturbed five acres or more, and municipalities with populations of 100,000 or more that owned and operated a municipal separate storm sewer system (MS4). Phase II of the program expanded coverage to construction activities that disturbed one acre or more and any publicly owned and operated MS4. In NC, the NPDES stormwater program is administered by the NC Department of Environmental Quality (DEQ), Division of Energy, Mineral, and Land Resources (DEMLR).

NC DEQ DEMLR issued NPDES Permit Number NCS000290 (herein referred to as the Permit) to MCIEAST-MCB CAMLEJ. The term for the current permit expires on 30 September 2026. The Permit (included as Appendix A) was issued pursuant to the requirements of NC General Statute 143-215.1 and the Memorandum of Agreement between NC and the US Environmental Protection Agency (EPA) dated May 9, 1994 (or as subsequently amended). The Permit authorizes the point source discharge of stormwater runoff and specified non-stormwater discharges from MCIEAST-MCB CAMLEJ (including MCAS New River) to the receiving waters specified in the permit.

The Permit requires the development, maintenance, and implementation of several stormwater related plans including this SWPPP. The SWPPP must cover each regulated industrial activity at MCIEAST-MCB CAMLEJ. Regulated industrial activities as defined by the Permit include industrial activities defined in 40 CFR 122.26 (b)(14), which contains eleven categories of industrial activity types and references Standard Industrial Classification (SIC) codes to aid in the classification industrial activities. The Permit supplements the definition of regulated industrial activities and the requirements associated with these activities with the following NC general permits:



- General Permit NCG08000, vehicular maintenance areas
- General Permit NCG11000, wastewater treatment works
- General Permit NCG150000, air transportation

This document incorporates the requirements of the above-mentioned permits into a comprehensive SWPPP that includes each regulated industrial activity at MCIEAST-MCB CAMLEJ. The following regulated industrial activities occur at MCIEAST-MCB CAMLEJ:

- Ground transportation operations
- Air transportation operations
- Water transportation operations
- Bulk fuel storage and transfer
- Hazardous material treatment, storage, or disposal
- Recycling and scrap/salvage
- Wastewater treatment works
- Landfills
- Warehousing and storage
- Wood product manufacturing

1.3 CONTENT OF PLAN

The SWPPP defines a program to control stormwater discharges from MCIEAST-MCB CAMLEJ facilities with regulated industrial activities. The plan identifies and maps potential pollutant sources that may be reasonably expected to contribute to the contamination of stormwater discharges. These sources include outdoor industrial activities and process areas, materials storage areas, loading and unloading areas, liquid transfer areas, and waste disposal practices exposed to stormwater.

This SWPPP reviews best management practices (BMPs) implemented throughout MCIEAST-MCB CAMLEJ and recommends additional BMPs. BMPs may be either structural, such as secondary containment structures for aboveground storage tanks (ASTs), or non-structural, such as standard operating procedures (SOPs) for hazardous waste (HW) or hazardous material (HM) management.



The SWPPP outlines the organizational structure for a Stormwater Pollution Prevention Committee (SWPPC). Responsibilities of the SWPPC include personnel training and implementation of BMPs.

1.4 STORMWATER POLLUTION PREVENTION PLAN FORMAT

The SWPPP presents information in six sections with supplemental information provided in the appendices.

- **Section 1 Introduction** contains background and regulatory information, the content and format of the SWPPP, and a list of the receiving waters for MCIEAST-MCB CAMLEJ.
- **Section 2 Planning and Organization** details the members of the SWPPC and their responsibilities, SWPPP field assessment procedures, and SWPPP maintenance and recordkeeping. This section also contains a brief review of existing environmental plans relevant to the SWPPP.
- **Section 3 Potential Pollutant Sources** contains an assessment of potential pollution sources at MCIEAST-MCB CAMLEJ.
- **Section 4 Best Management Practices** addresses BMPs used at MCIEAST-MCB CAMLEJ to reduce and/or eliminate pollution from the potential sources outlined in the previous section.
- **Section 5 Recommendations** recommends corrective actions based on potential pollutant risks identified during the 2020 - 2021 SWPPP field assessments conducted by AH.
- **Section 6 References and Works Cited** lists references and works cited.

1.5 STORMWATER OUTFALLS AND DRAINAGE AREAS

An "outfall" as defined in 40 CFR 122.2 is a "point source" discharge generally located at a property boundary or where the discharge enters a water body. Previous studies at MCIEAST-MCB CAMLEJ applied this definition as outfalls representing point source discharges draining to streams, creeks, ponds, or perennial water bodies. This SWPPP defines regulated stormwater drainage outfalls as stormwater point source discharges from drainage basins with regulated industrial activities located at MCIEAST-MCB CAMLEJ. Stormwater drainage outfalls not associated with regulated industrial activities are not incorporated into this SWPPP; however, they are included in the Stormwater Management Plan (SWMP) maintained by MCIEAST-MCB CAMLEJ as a requirement of the Permit.



AH calculated total surface areas for stormwater point source discharges (outfalls). Appendix B lists the outfall identifier (ID), northing, easting, total drainage area in acres, receiving stream, regulated industrial activities with associated building or structure IDs, and monitoring status of each industrialized outfall. The SWPPP is limited to the industrialized outfalls regulated by NPDES Permit NCS000290. Table 1-1 lists receiving waters for MCIEAST-MCB CAMLEJ (as identified on the cover page of the NPDES permit and any other surface water that receives stormwater runoff from regulated industrial activities at MCIEAST-MCB CAMLEJ).



Table 1-1 Receiving Waters of MCIEAST-MCB CAMLEJ

Receiving Water	Classification ¹	TMDL / Listed 303(d) ²
Bear Creek	SA; HQW	Approved TMDL for Fecal Coliform, 2011 (not included in 2020 303(d) list)
Bearhead Creek	SB;NSW	No
Beaverdam Creek	SB; NSW	No
Brinson Creek	SC, NSW	303(d) listed impaired: copper and chlorophyll a (2020)
Cogdels Creek	SC; NSW	No
Courthouse Bay	SA; HQW	303(d) listed impaired: prohibited shellfish harvesting / fecal coliform (2020)
Cowhead Creek	SC;NSW	No
Edwards Creek	SC; HQW, NSW	No
Farnell Bay	SC; NSW	No
Frenchs Creek	SC; NSW	No
Morgan Bay	SC; NSW	No
Mott Creek	C; NSW	No
New River	SC; HQW, NSW (upstream portion) SA; HQW (downstream portion)	303(d) listed impaired: prohibited shellfish harvesting / fecal coliform, copper, and pH (2020)
Northeast Creek	SC; HQW, NSW	No
Scales Creek	SC; HQW, NSW	No
Shelter Swamp Creek	C;Sw	No
Southwest Creek	C; NSW (upstream portion) SC; HQW, NSW (downstream portion)	No
Stick Creek	SC; HQW, NSW	No
Stones Bay	SA;HQW	No
Stones Creek	SA; HQW	303(d) listed impaired: prohibited shellfish harvesting / fecal coliform (2020)
Strawhorn Creek	SC; HWQ, NSW	No
Wallace Creek	SB; NSW	No
Wilson Bay	SC; HQW, NSW	No

1) As per NC DEQ's NC Surface Water Classification Map

Class C: Waters protected for uses such as secondary recreation, fishing, wildlife, fish consumption, aquatic life including propagation, survival and maintenance of biological integrity, and agriculture. Secondary recreation includes wading, boating, and other uses involving human body contact with water where such activities take place in an infrequent, unorganized, or incidental manner.

Class SC: All tidal salt waters protected for secondary recreation such as fishing, boating, and other activities involving minimal skin contact; fish and noncommercial shellfish consumption; aquatic life propagation and survival; and wildlife.

Class SB: Tidal salt waters protected for all SC uses in addition to primary recreation. Primary recreational activities include swimming, skin diving, water skiing, and similar uses involving human body contact with water where such activities take place in an organized manner or on a frequent basis.

Class SA: Tidal salt waters used for commercial shellfishing or marketing purposes that are also protected for all Class SC and Class SB uses. All SA waters are also HQW by supplemental classification.

High Quality Waters (HQW): Supplemental classification intended to protect waters that are rated excellent based on biological and physical/chemical characteristics through Division monitoring or special studies, primary nursery areas designated by the Marine Fisheries Commission, and other functional nursery areas designated by the Marine Fisheries Commission.

Nutrient Sensitive Waters (NSW): Supplemental classification intended for waters needing additional nutrient management due to being subject to excessive growth of microscopic or macroscopic vegetation.

Swamp Waters (Sw): Supplemental classification intended to recognize those waters which have low velocities and other natural characteristics which are different from adjacent streams.

2) Waterbodies listed as impaired in the draft 2020 303(d) list published by NC DEQ and/or waterbodies subject to an approved Total Maximum Daily Load (TMDL).



**STORMWATER POLLUTION PREVENTION PLAN
MCIEAST-MCB CAMLEJ**

**SECTION 1
INTRODUCTION**

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2. PLANNING AND ORGANIZATION

An important component of the SWPPP for MCIEAST-MCB CAMLEJ is the existence of an organizational hierarchy familiar with existing environmental pollution prevention/contingency plans and unit level operational activities. A SWPPC has been established that includes key personnel that implement the following critical SWPPP elements: address inventories and inspections of HM, HW, and petroleum, oils, and lubricants (POLs); implement pollution prevention training; develop safety inspection procedures for HMs; implement spill response and cleanup procedures; and perform monitoring and sampling as required by the Permit.

2.1 STORMWATER POLLUTION PREVENTION COMMITTEE

The MCIEAST-MCB CAMLEJ SWPPC is tasked with overseeing implementation of the SWPPP and associated BMPs. The SWPPC includes the following members:

1. Stormwater Pollution Prevention Manager (SWPPM)
2. MCAS New River SWPPP Liaison
3. SWPPP Compliance Assessors

The predominant functions of the SWPPC include the following:

- Ensure compliance with NC DEQ water quality regulations and Permit requirements at MCIEAST-MCB CAMLEJ.
- Review, prioritize, and determine appropriate funding for pollution control equipment and materials, as necessary.
- Review and prioritize the implementation of structural and non-structural BMPs.
- Supervise the implementation of appropriate BMPs.
- Inspect and oversee the maintenance of structural BMPs.

The SWPPC is responsible for monitoring the operational status of facilities within their areas of responsibility and identifying areas of high pollution potential. Committee members evaluate and prioritize specific funding requests for pollution control equipment and materials.



The following sections discuss the responsibilities of the SWPPC members.

2.1.1 Stormwater Pollution Prevention Manager

The SWPPM is responsible for overall implementation of pollution prevention initiatives, including SWPPP provisions at MCIEAST-MCB CAMLEJ. The SWPPM reports to the Director of the Environmental Management Division (EMD). The SWPPM will perform the following tasks:

- Supervise and direct staff and contractors' work to support pollution prevention projects and the goals of the SWPPP.
- Develop agendas and recommendations for SWPPC meetings.
- Provide guidance, via the chain of command, to MCIEAST-MCB CAMLEJ organizations concerning the SWPPP.
- Track the progress of SWPPP implementation within affected organizations.
- Update the SWPPP on an annual basis.
- Develop pollution prevention awareness information and public relations packages for distribution both at MCIEAST-MCB CAMLEJ and externally to the community.
- Supervise the update of the pollution prevention portion of the Comprehensive Environmental Training & Education Program (CETEP).

2.1.2 MCAS New River SWPPP Liaison

The MCAS New River SWPPP Liaison assists with overall implementation of the SWPPP at MCAS New River. This SWPPC team member reports to the SWPPM. The SWPPP Liaison conducts the following at MCAS New River:

- Assist the SWPPM with overall implementation of the SWPPP and compliance with SWPPP provisions.
- Assist with SWPPP revisions based on field assessments.
- Review, support, and provide guidance on actions or proposals presented by the SWPPC.

2.1.3 SWPPP Compliance Assessors

The SWPPP compliance assessors are responsible for ensuring compliance with SWPPP provisions by conducting inspections and providing training to facility



personnel. The SWPPP compliance assessors report to the SWPPM. The SWPPP compliance assessors carry out the following:

- Assist the SWPPM in implementing and ensuring compliance with the SWPPP provisions.
- Verify proper maintenance of records as required by this SWPPP.
- Coordinate recommendations for SWPPP revisions based on field BMP evaluations with SWPPC members.
- Assist with SWPPP compliance inspections and evaluations.
- Conduct inspections and monitoring in accordance with permit specifications.
- Provide technical guidance as requested.
- Arrange for facility-level and unit-level training in stormwater pollution prevention.

2.2 SWPPP FIELD ASSESSMENTS

The SWPPC assesses adherence to the SWPPP by all facilities engaging in regulated industrial activities in conjunction with the regular internal environmental compliance evaluations administered by the MCIEAST-MCB CAMLEJ EMD Environmental Compliance Branch (ECB). These field assessments include the following:

- Visual inspections of accessible stormwater drainage features for evidence of improper disposal of polluting materials and potential illicit connections.
- Evaluation of the effectiveness of existing control measures to reduce potential pollution sources.
- Observations of existing structural BMPs (e.g., OWSs with discharges to the stormwater drainage system, secondary containment structures) to ensure that equipment is adequate and functioning properly.
- Inspection of the structural integrity of existing control measures (e.g., secondary containment areas, roofs and canopies, and spill response equipment).
- Verification of BMP effectiveness.
- Verification of SWPPP site maps, including associated structural or materials storage location revisions, and changes in storm drainage conveyance systems and/or drainage boundaries.
- Recommendations for plan improvement to reduce pollutant loading to the stormwater drainage system.

The SWPPP compliance assessors utilize electronic SWPPP mapping and database software (referred to as the “eSWPPP”) to update the various asset inventories contained in the SWPPP (e.g., inventory of outdoor ASTs). This software effectively allows



the compliance assessors to update the SWPPP continuously, based on findings from the various compliance inspections administered by ECB or other MCIEAST-MCB CAMLEJ personnel.

The eSWPPP database, maintained by EMD, includes the dates of inspections and the identities of the personnel or service contractors who conducted the inspections. These inspections are archived chronologically within the database for later review. Additionally, the eSWPPP software links the database to MCIEAST-MCB CAMLEJ geographic information system (GIS) mapping data. As a result, SWPPP mapping data can be easily updated following field inspections.

2.3 SWPPP REVISION, UPDATES, AND RECORDKEEPING

The SWPPM is responsible for maintaining an updated and accurate version of the SWPPP. The SWPPM, or an approved representative, will review site inspection and maintenance records as necessary, and ensure plan revisions are properly documented with the Record of Review and Amendments Log located in the front of the SWPPP. The SWPPP will be reviewed at least once per year and updated as necessary.

The SWPPM is responsible for amending the SWPPP whenever there is a change in design, construction, operation, or maintenance that has a significant effect on the potential for the discharge of pollutants to the waters of NC. The SWPPP must also be amended if it proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified in the permit, or in otherwise achieving the general objectives of controlling pollutants in stormwater discharges associated with industrial activity. The authorized signatory must re-certify and re-sign all revisions, amendments, or updates to the SWPPP.

The updated SWPPP, appendices, and mapping are maintained at EMD (located at Building 12) to facilitate ongoing staff review, interdepartmental review, or reviews, either announced or unannounced, conducted by a regulatory agency. The SWPPP and related records and mapping are kept on file for a period of three years and made available immediately upon request.



NC DEQ DEMLR may notify MCIEAST-MCB CAMLEJ if the SWPPP does not meet one or more of the lawful requirements of the permit. Within 30 days of such notice, MCIEAST-MCB CAMLEJ must submit a plan and schedule for modifying the SWPPP to meet the requirements. Once approved, or approved with changes, MCIEAST-MCB CAMLEJ will enact the modifications and notify NC DEQ DEMLR in writing that the modifications have been made.

2.4 REVIEW OF EXISTING MANAGEMENT PLANS AND REPORTS

Several environmental management plans, programs, and procedures have been developed for MCIEAST-MCB CAMLEJ. Where applicable, existing BMPs referenced within the SWPPP were derived from these plans to ensure the SWPPP does not conflict with other requirements. Additionally, referencing existing effective procedures prevents redundancy and enhances overall SWPPP implementation. The most significant MCIEAST-MCB CAMLEJ plans, programs, and procedures affecting overall implementation of the SWPPP include the following:

- Comprehensive Environmental Training & Education program (CETEP), available online: <<https://www.lejeune.marines.mil/Offices-Staff/Environmental-Mgmt/ECPSOP/ENVIRONMENTAL-TRAINING-CETEP/>>
- MCIEAST-MCB CAMLEJ Hazardous Waste Management Plan (HWMP)
- MCAS New River Resource Conservation and Recovery Act Hazardous Waste Contingency Plan and Quick Reference Guide (HWCP)
- Facility Response Plan (FRP)
- Spill Prevention, Control, and Countermeasure (SPCC) Plan
- Oil Pollution Abatement Facility Inventory
- Integrated Pest Management Plan (IPMP)
- Integrated Solid Waste Management Plan (ISWMP)
- Stormwater Management Plan (SWMP)
- Stormwater Outfall Monitoring Plan (SWOMP)
- MCIEAST-MCB CAMLEJ Orders (MCIEAST-MCB CALEJOs) and Environmental Compliance & Protection Standard Operating Procedure (ECPSOP)
- Defense Materiel Disposition: Disposal Guidance and Procedures

EMD maintains these plans. The following sections summarize the contents of these plans pertinent to the SWPPP.



2.4.1 Comprehensive Environmental Training & Education Program (CETEP)

The CETEP integrates the requirements of MCB CAMLEJO 5090.2A, *Camp Lejeune Environmental Management System Implementation* and Department of Defense (DoD) Instruction 4715.10, *Environmental Education, Training, and Career Development*. The goal of CETEP is to accommodate and support the mission of MCIEAST-MCB CAMLEJ and its components by identifying, monitoring, and tracking environmental training needs to ensure that environmentally compliant operations take place, and that human health and the environment are protected to the maximum extent possible. MCIEAST-MCB CAMLEJ provides environmental training in a traditional classroom format and through computer-based training available through the United States Marine Corps (USMC) Environmental Learning Management System (eLMS).

Applicable SWPPP-related personnel at each industrial facility are required to take one or more of the following classroom training modules:

- Initial & Refresher HM / HW Training (EM-101 & EM-102)
- HM Transportation Class for Fuel Drivers (EM-103)
- Environmental Compliance Coordinator and Compliance Officer Seminar (EM-104)
- Aboveground Storage Tank / SPCC Training (EM-107)
- Oil/Water Separator (OWS) and Pollution Abatement System (PAS) Training (EM-108)

2.4.2 MCIEAST-MCB CAMLEJ Hazardous Waste Management Plan (HWMP)

The HWMP, which includes a hazardous waste contingency plan and quick reference guide, identifies and implements HW management actions required by state and federal law and provides the procedures and responsibilities by which MCIEAST-MCB CAMLEJ properly manages HW. The HWMP is distributed to all personnel (including all Marine Corps commands/units and tenants) who accumulate, generate, transport, store, or dispose of HW for their compliance. The HWMP must be reviewed and updated whenever installation/facility conditions or operations affecting HW accumulation, generation, transportation, treatment, storage, or disposal change.

The HWMP does not apply to MCAS New River.



2.4.3 MCAS New River Resource Conservation and Recovery Act Hazardous Waste Contingency Plan and Quick Reference Guide (RCRA HWCP)

The RCRA HWCP documents the planning and actions MCAS New River undertake to prepare for potential emergencies involving HW and describes the actions that MCAS New River personnel must carry out immediately whenever there is a fire, explosion, or release of HW or HW constituents that could threaten human health or the environment. The requirements of the RCRA HWCP apply to areas of MCASNR where HW is generated, accumulated, or stored. This plan also describes emergency response equipment, testing, and maintenance requirements; accessibility to waste areas; and coordination, arrangements, and agreements with outside emergency response organizations. Lists of emergency contacts and response equipment as well as evacuation plans for waste accumulation and storage areas where evacuation could be necessary are also provided in this plan.

The RCRA HWCP applies only to MCAS New River and does not apply to the remainder of MCIEAST-MCB CAMLEJ.

2.4.4 Facility Response Plan (FRP) & Spill Prevention, Control, and Countermeasure (SPCC) Plan

The FRP and SPCC Plan work in conjunction to provide installation personnel with documents that enhance the ability to respond to oil spills in an effective and timely manner. Both documents detail the management programs for over 500 bulk oil storage containers as well as 715 units of oil filled operating equipment. The nine (9) storage locations described in the FRP were identified by a hazard analysis and constitute the locations with the largest capacities of bulk oil storage at MCIEAST-MCB CAMLEJ (including MCAS New River) that could cause substantial harm.

The FRP and SPCC Plan both require the facility "owner or operator" to respond in a safe, effective, and timely manner to mitigate the impacts of a discharge from any oil storage containers. Both documents contain guidelines for emergency notification procedures and authority, response planning, logistics, training, and required emergency response equipment. Both plans also document the procedures for responding to and



preventing HM/HW/POL spills and other potentially harmful releases. The plans provide detailed descriptions of response personnel capabilities, including the duties and qualifications of persons at the facility during a response action. Copies of both documents are distributed to all spill response personnel and facility representatives.

The SPCC Plan specifically addresses the following items:

- Spill Prevention - System components and characteristics, and operating procedures to prevent oil spills
- Spill Control - Control measures to prevent a spill from entering navigable waters
- Spill Countermeasures - Countermeasures to contain a spill and mitigate its impact on navigable waters

The SPCC Plan is designed to address all oil-containing structures at MCIEAST-MCB CAMLEJ with capacities equal to or greater than 55 gallons.

2.4.5 Oil Pollution Abatement Facility Inventory

The Oil Pollution Abatement Facility Study identifies approximately 180 OWSs at MCIEAST-MCB CAMLEJ (at the time of the SWPPP review). This document provides site plans and construction drawings, if available, as well as information such as operation flowrate, discharge route (e.g., sanitary sewer or storm sewer), oil removal efficiency, and recommendations.

2.4.6 Integrated Pest Management Plan (IPMP)

DoD guidance requires that Marine Corps installations develop and implement a comprehensive pest management program. To achieve these requirements, MCIEAST-MCB CAMLEJ has developed a IPMP that describes requirements for all aspects of pesticide management, including procurement, storage, mixing, use, disposal, safety, reporting, and spill control. The IPMP lists applicable laws and regulations, and recommends effective procedures and integrated pest management strategies.

MCIEAST-MCB CAMLEJ has significantly reduced its application of pesticides and herbicides over the years in an effort to use these chemicals only as needed and in the



smallest effective amounts. Furthermore, MCIEAST-MCB CAMLEJ has identified a series of non-chemical or mechanical means of controlling pests, which are detailed in the IPMP.

2.4.7 Integrated Solid Waste Management Plan (ISWMP)

The ISWMP provides information to MCIEAST-MCB CAMLEJ personnel regarding proper management of solid waste, excluding HW. The purpose of the IWSMP is to establish requirements for solid waste management, reduction, collection, and disposal at MCIEAST-MCB CAMLEJ (including MCAS New River). Solid waste includes non-hazardous trash, rubbish, garbage, bulky wastes, and sludge generated by any operations or activities. Solid waste generated on-base comes from commercial and industrial activities. Residential solid waste is privatized and not managed by MCIEAST-MCB CAMLEJ. The residential waste is disposed of in the base landfill.

The solid waste management program at MCIEAST-MCB CAMLEJ is a collaborative effort between the Public Works Department (PWD), The Qualified Recycling Program (QRP), the Defense Logistics Agency Disposition Services (DLADS), and EMD. Together, these entities work to manage the solid waste program at MCIEAST-MCB CAMLEJ, with an emphasis on the diminution of waste disposed to the extent practicable by means of reduction, reuse, and recycling.

2.4.8 Stormwater Management Plan (SWMP)

The purpose of the SWMP is to ensure compliance with the Permit (NCS000290), reduce the discharge of pollutants from MCIEAST-MCB CAMLEJ and MCAS New River to the maximum extent practicable, protect water quality, and satisfy the applicable water quality requirements of the CWA. The SWMP details MCIEAST-MCB CAMLEJ's stormwater management program for the five-year term of the Permit. The SWMP defines the following six minimum control measures that must be implemented to satisfy the conditions of the Permit:

- Public education and outreach
- Public involvement and participation



- Illicit discharge detection and elimination
- Construction site runoff controls
- Post-construction site runoff controls
- Pollution prevention and good housekeeping

The SWMP outlines the steps that MCIEAST-MCB CAMLEJ must take to meet these six requirements. Additionally, the SWMP defines the need for other stormwater pollution prevention plans, including the SWPPP and the SWOMP to satisfy the industrial activities and stormwater monitoring provisions, respectively, in the Permit.

Furthermore, the SWMP defines MCIEAST-MCB CAMLEJ's responsibilities with respect to impaired waters as defined by the CWA 303(d) list and TMDLs developed for the receiving waters of MCIEAST-MCB CAMLEJ. The SWMP addresses how MCIEAST-MCB CAMLEJ's compliance with the Permit will be assessed, discusses reporting and recordkeeping requirements of the Permit, and estimates the financial costs involved in successful implementation of the SWMP.

2.4.9 Stormwater Outfall Monitoring Plan (SWOMP)

The SWOMP describes the stormwater monitoring requirements mandated in Section H of the Permit (NCS000290). The SWOMP provides SOPs for conducting the required outfall monitoring, including visual assessment and analytical sampling at MCIEAST-MCB CAMLEJ and MCAS New River. Section 4.2.2 (Outfall Monitoring) summarizes the monitoring requirements detailed in the SWOMP.

2.4.10 Marine Corps Base Camp Lejeune Orders (MCIEAST-MCB CAMLEJOs) & Environmental Compliance & Protection Standard Operating Procedures (ECPSOPs)

The following MCIEAST-MCB CAMLEJOs and ECPSOPs are pertinent to the SWPPP program at MCIEAST-MCB CAMLEJ:

- MCIEAST-MCB CAMLEJO 5090.2A, *Camp Lejeune Environmental Management System Implementation*
- MCIEAST-MCB CAMLEJO 5090.4A, *Environmental Compliance Evaluation Program Aboard Marine Corps Base Camp Lejeune*



- MCIEAST-MCB CAMLEJO 5090.7, *Emergency Planning and Response, Spill Prevention, Control, and Countermeasures Aboard Marine Corps Base Camp Lejeune and Marine Corps Air Station New River*
- MCIEAST-MCB CAMLEJO 5090.9, *Hazardous Material / Waste Management*
- MCIEAST-MCB CAMLEJO 5090.91A, *Marine Corps Base Camp Lejeune and Marine Corps Air Station New River Used Oil or Used Fuel and Pollution Abatement Facility Management*
- MCIEAST-MCB CAMLEJO 11350.1A, *Refuse Disposal Procedures*

MCIEAST-MCB CAMLEJ has developed several ECPSOPs specifically designed to facilitate implementation of a variety of management plans and procedures. The following ECPSOPs address practices directly related to SWPPP implementation:

- ECPSOP 4.1 – *Environmental Compliance Officer (ECO) Responsibilities*
- ECPSOP 4.2 – *Environmental Compliance Coordinator (ECC) Responsibilities*
- ECPSOP 4.3 – *Hazardous Material (HM) Site Manager Responsibilities*
- ECPSOP 4.4 – *Hazardous Material (HM) Handler Responsibilities*
- ECPSOP 4.5 – *Hazardous Waste (HW) Site Manager Responsibilities*
- ECPSOP 4.6 – *Hazardous Waste (HW) Handler Responsibilities*
- ECPSOP 4.9 – *Environmental Management Preparations for Deploying Units*
- ECPSOP 7.0 – *Petroleum and Non-Petroleum Tank Delivery Operations*
- ECPSOP 9.10 – *Incidental Fuel Request*
- ECPSOP 9.101 – *Used Oil / Used Fuel Management Program*
- ECPSOP 9.102 – *Management of Pollution Abatement Facilities*
- ECPSOP 9.103 – *Vehicle Wash Racks*
- ECPSOP 9.3 – *Management of Solvent Parts Washers*
- ECPSOP 9.7 – *Bulk Storage and Management of Hazardous Materials (HM)*
- ECPSOP 9.8 – *Management of Storage of Batteries*

These locally derived orders and ECPSOPs establish uniform policies and requirements for all commands and tenants at MCIEAST-MCB CAMLEJ.

2.4.11 Defense Materiel Disposition: Disposal Guidance and Procedures

The Defense Materiel Disposition Manual (DoD Manual 4160.21, Volume 1 October 22, 2015 Incorporating Change 3, October 2, 2019) provides comprehensive guidance for acceptance and handling of government surplus. The manual defines the roles and



responsibilities for both the generators of surplus materiel and facilities receiving, storing, recycling, and disposing of surplus materiel.



3. POTENTIAL POLLUTANT SOURCES

Regular field assessments, completed by EMD personnel and service contractors to identify potential pollutant sources, serve to meet SWPPP specified Permit requirements. This section identifies potential sources of stormwater pollution associated with facilities engaging in regulated industrial activities. The following regulated industrial activities occur at MCIEAST-MCB CAMLEJ:

- Ground transportation operations
- Air transportation operations
- Water transportation operations
- Bulk fuel storage and transfer
- Hazardous material treatment, storage, or disposal
- Recycling and scrap/salvage
- Wastewater treatment works
- Landfills
- Warehousing and storage
- Wood product manufacturing

Appendix C summarizes all facilities engaging in regulated industrial activities. Each of these facilities is regularly assessed by EMD personnel or a service contractor in conjunction with internal environmental compliance evaluations. During these regular field assessments, GIS mapping data relevant to the SWPPP is updated. Records of all documented illicit discharges are retained within the eSWPPP database and can be queried on demand by EMD staff.

MCIEAST-MCB CAMLEJ inventories and maps all known potential sources of stormwater pollution at each facility engaging in a regulated industrial activity. The following known potential pollutant sources are included in the SWPPP inventory and mapping:

- Outdoor ASTs
- Outdoor HM/HW management areas
- Outdoor material storage areas (including dumpsters)
- Outdoor liquid transfer areas
- OWSs



The following appendices provide inventories of known potential pollutant sources at each facility engaging in a regulated industrial activity at MCIEAST-MCB CAMLEJ:

- Appendix D: Outdoor Aboveground Storage Tanks
- Appendix E: Outdoor Hazardous Material / Hazardous Waste Management Areas
- Appendix F: Outdoor Material Storage Areas
- Appendix G: Outdoor Liquid Transfer Areas
- Appendix H: Oil/Water Separators

Other potential sources of stormwater pollution encountered at MCIEAST-MCB CAMLEJ include activities specific to regulated industrial activities such as ground vehicle and aircraft washing. These potential sources are included in the inventory of facilities engaging in regulated industrial activities (refer to Section 3.2 Facilities Engaging in Regulated Industrial Activities).

Appendix I (Prediction of Industrial Discharges), which is maintained separate from the SWPPP by the SWPPM, summarizes predicted industrial stormwater discharges based on the most recent field assessments of the facilities engaging in regulated industrial activities at MCIEAST-MCB CAMLEJ and recommends BMPs to reduce the associated stormwater pollution potential.

3.1 SWPPP MAPPING

EMD personnel and service contractors conduct regular field assessments to identify potential pollutant sources and update MCIEAST-MCB CAMLEJ's GIS mapping. Mapping data is typically generated with mapping-grade global positioning system devices or using recent aerial imagery to locate existing potential pollutant sources. Existing potential pollutant sources are field verified, and new or previously undocumented potential pollutant sources are added during the field assessment process. Up-to-date SWPPP mapping information is maintained concurrently with EMD's eSWPPP database.

Appendix J contains MCIEAST-MCB CAMLEJ SWPPP mapping that locates each facility engaging in an industrial activity and presents detailed SWPPP site maps of each



facility. The industrial facility site maps show buildings, existing stormwater infrastructure, on-site and adjacent surface waters, and potential pollutant sources.

3.2 FACILITIES ENGAGING IN REGULATED INDUSTRIAL ACTIVITIES

The 2020 - 2021 SWPPP field assessments identified 175 facilities at MCIEAST-MCB CAMLEJ and MCAS New River currently engaging in regulated industrial activity as defined by the Permit. The following sections describe the various regulated industrial activities encountered at MCIEAST-MCB CAMLEJ. Table C-1 in Appendix C is a field guide to assist SWPPP assessors with the future designation of new industrial activities.

3.2.1 Ground Transportation Operations

Operations at MCIEAST-MCB CAMLEJ include the storage, washing, maintenance, and fueling of ground vehicles. The majority of these operations focus on traditional tactical military vehicles and equipment, but some maintenance also occurs on non-military vehicles. Most maintenance activities are restricted to designated maintenance facilities located areas across MCIEAST-MCB CAMLEJ. The maintenance facilities are usually enclosed and associated maintenance operations are not generally exposed to stormwater runoff.

3.2.1.1 Ground Vehicle Washing

Marine Corps ground vehicles are washed on a regular basis as an important aspect of routine preventive maintenance. According to existing SOPs, all military vehicle cleaning operations are conducted on designated wash pads equipped with OWSs. During use, wash pads are inspected to ensure wash water effluent is directed into an OWS and that the OWS is functioning properly. Based on existing policies, when outdated or out-of-use wash pads fail to meet minimum design standards, they are no longer used for washing operations.

OWSs associated with ground vehicle wash pads discharge to the sanitary sewer system. Most wash pads at MCIEAST-MCB CAMLEJ are not under cover and are exposed



to precipitation, which could be a source of stormwater inflow into the sanitary sewer system. Many OWSs include a bypass feature that discharges to the storm sewer system during heavy rain events. If an OWS becomes clogged, this bypass feature could discharge potentially contaminated water to the storm sewer system.

Designated wash pads are typically used by multiple units for washing tactical vehicles; however, some non-tactical vehicles, such as military-owned buses and vans, are also cleaned on these wash pads. Containment curbing is provided at wash pads to prevent stormwater run-on and ensure wash water effluent is directed to an OWS and does not escape directly to the storm sewer system or to state waters. Appendix H contains an inventory of OWSs that are located at facilities engaging in regulated industrial activities. The inventory indicates which OWSs are associated with ground vehicle washing operations.

Tactical vehicles are typically washed without any cleaning agents, depending mostly on water pressure and hand washing techniques. When detergents are needed, only low emulsifying soaps are permitted per ECPSOP 9.103.

3.2.1.2 Ground Vehicle Maintenance

Ground vehicle maintenance facilities are used for general and preventive maintenance activities associated with various wheeled and tracked vehicles. This includes, but is not limited to, tactical trucks and utility vehicles, trailers, tankers, automobiles, vans, trucks, wheeled and tracked artillery, and amphibious tracked vehicles. Indoor vehicle maintenance activities may include fluid changes, mechanical repairs, parts cleaning and replacement, sanding, refinishing, painting, and storage of vehicles waiting for repair or maintenance. Most vehicle maintenance facilities include floor drains to prevent liquid spills from escaping the building. The floor drains direct spilled liquids to OWSs that discharge to the sanitary sewer system. Routine preventive maintenance checks and inspections may be conducted outdoors in vehicle storage areas; however, these activities typically do not involve any fluid exchange or mechanical repairs and thus pose minimal risk to stormwater exposure. Appendix C summarizes all MCIEAST-MCB CAMLEJ facilities engaging in regulated industrial activities including ground vehicle maintenance facilities.



Associated with vehicle maintenance operations is the storage of various new or used replacement parts, such as batteries, belts, hoses, tires, and other materials. Additionally, on-site liquid storage may include hydraulic fluids, motor oil, lubricants, fuel, anti-freeze, cleaners, lacquers, thinners, and other solvents. Spills of these fluids may occur from leaking, ruptured, or overturned containers or from leaking vehicles. Spill response procedures are well established and spill kits are available within each of the maintenance facilities.

3.2.1.3 Ground Vehicle Fueling

Appendix G provides an inventory of outdoor liquid transfer areas that includes ground vehicle fueling areas. Appendix D summarizes outdoor ASTs. These tables document areas of fuel delivery and transfer; fuel storage; and fuel dispensing operations associated with ground vehicles.

Ground vehicle fueling operations occur throughout MCIEAST-MCB CAMLEJ. Fuel products such as unleaded gasoline, diesel fuel, and jet propellant (JP) are generally transferred into or from ASTs. In some cases, smaller drums or containers are used to transfer fuel products. During fueling operations, spill kits, absorbent booms, and other spill response devices are generally available. Additionally, many of the areas where vehicle fueling operations occur are covered and/or include containment curbing that drains to an OWS or other spill containment device. MCIEAST-MCB CAMLEJ personnel are well-trained on spill response procedures and maintain adequate spill response equipment that is readily accessible.

3.2.2 Air Transportation Operations

Operations at MCAS New River include the storage, washing, maintenance, and fueling of rotary wing aircraft. Aircraft maintenance activities are restricted to designated hangars located adjacent to the MCAS flight line. The maintenance facilities are usually enclosed and associated maintenance operations are not generally exposed to stormwater runoff.



3.2.2.1 Aircraft Washing

Aircraft washing operations are limited to MCAS New River. All Marine Corps aircraft are washed every 14 days. However, some instances, such as exposure to salt spray, salt water, or other corrosive materials, require more frequent washing. When an aircraft is deployed within three miles of salt water or flown below 3,000 feet over salt water, daily washing or wipe down is required on all exposed, unpainted surfaces, such as landing gear struts and actuating rods of hydraulic cylinders.

SOPs for aircraft cleaning operations require that aircraft be washed on designated wash pads located along the concrete flight line. At a minimum, wash pads are inspected during use to ensure wash water effluent is directed into an OWS and that the OWS is functioning properly.

As with OWSs associated with ground vehicle wash pads, OWSs that receive water from aircraft wash pads discharge to the sanitary sewer system. Aircraft wash pads at MCIEAST-MCB CAMLEJ are currently not under cover and are exposed to precipitation, which could contribute stormwater inflow to the sanitary sewer system. Future hangar renovations are planned to include some interior/covered aircraft wash racks. Many OWSs include a bypass feature that discharges to the storm sewer system during heavy rainfall events. If an OWS becomes clogged, the bypass feature could discharge potentially contaminated water to the storm sewer system. Appendix H contains an inventory of OWSs that includes OWSs serving aircraft wash pads.

3.2.2.2 Aircraft Maintenance

Aircraft maintenance operations are limited to MCAS New River, which serves as an operating base for rotary wing combat aircraft. Aircraft maintenance activities include fluid changes, mechanical repairs, tire and wheel maintenance, parts cleaning, painting, equipment storage, and aircraft engine cleaning. Most of these activities, with the exception of aircraft engine cleaning, occur indoors and are not exposed to stormwater. All aircraft maintenance facilities include floor drains to prevent liquid spills from escaping the building. The floor drains direct spilled liquids to OWSs that discharge to the sanitary sewer system.



Aircraft maintenance hangars are located in the central portion of the MCAS, adjacent to the taxiways and runways. Small spills and leaks may occur within the hangars, but are generally contained within the building and not exposed to stormwater runoff. Each of the maintenance hangars contains spill response kits and absorbent booms readily available for spill response.

Aircraft engine cleaning operations are an important and necessary routine maintenance operation. At the MCAS, SOPs require that all aircraft engine cleaning be conducted on designated wash racks located along the concrete flight line. Cleaning of turbine engines is performed outside because it is unsafe to turn helicopter turbine blades inside the aircraft hangars. The helicopter engines are cleaned using a specialized gas turbine compressor cleaner. This cleaner is a compound that becomes an emulsion when diluted with water, but does not generate hazardous waste runoff. According to Marine Corps representatives, the process for cleaning aircraft engines is slightly different for each aircraft depending on exact use and age of the aircraft. Wash water effluent generated from the engine cleaning operations is discharged to the sanitary sewer via aircraft wash racks; however, some over spray does occur during the rinsing process that is not captured by the wash racks. There is currently no process in place to capture engine cleaning over spray.

3.2.2.3 Aircraft Fueling Operations

Aircraft fueling operations are limited to MCAS New River. Aircraft fueling operations include both fueling and defueling of rotary wing aircraft. Appendix G summarizes outdoor liquid transfer areas including aircraft fueling and defueling operations areas. The following sections describe procedures associated with fueling and defueling.

Fueling. Aircraft are fueled mostly through two fixed fueling sites fed by pipeline connected to on-site ASTs.

Mobile tankers are also used for aircraft fueling. The mobile tankers are stored in a common area and may be used for fueling and de-fueling operations. Fueling sites for mobile tankers are limited to aircraft parking and operational areas, and at designated locations adjacent to hangars.



Each squadron at MCAS New River has a designated parking area where fueling can be performed. Air Station personnel are well-trained on spill response procedures and maintain adequate spill response equipment that is readily accessible.

All aircraft fueling operations at the Air Station are performed following the standard fueling guidelines outlined in the "Aircraft Refueling Naval Air Training and Operating Procedures Standardization Manual" (Naval Air Systems Command 00-80T-109). Aircraft fueling activities are operational 24 hours per day, 7 days per week. Both "hot" and "cold" fueling of aircraft can be performed. "Hot" fueling is performed with the aircraft engines running, and "cold" fueling is performed with the aircraft engines shut down. The majority of routine fueling operations are "cold" fueling.

Defueling. According to Marine Corps representatives, aircraft must occasionally be defueled at MCAS New River. Defueling may be necessary when an aircraft arrives from a location that utilizes a fuel with a different rating (e.g., JP-4 fuel) than the fuel utilized at the MCAS (e.g., JP-5 fuel). Defueling may also be performed for periodic aircraft maintenance to the fuel system or when fuel is suspected of being contaminated.

Defueling is performed using procedures similar to those described for fueling. The area designated for fueling for each squadron is also used for defueling. All fuels collected during defueling operations are tested prior to shipment for possible reuse or proper disposal.

3.2.2.4 De-icing Operations

Due to the mild winter weather conditions in eastern NC, de-icing operations are not regularly conducted on aircraft or for air operations at MCAS New River. According to MCIEAST-MCB CAMLEJ personnel, sand may be used on roads occasionally to provide additional traction during icy weather, but de-icing chemicals are never used.



3.2.3 Water Transportation Operations

Operations at MCIEAST-MCB CAMLEJ include the storage, washing, maintenance, and fueling of Coast Guard and Marine Corps watercraft as well as recreational watercraft.

3.2.3.1 Boat Washing

Coast Guard and Marine Corps watercraft are washed regularly as an important aspect of preventive maintenance. MCIEAST-MCB CAMLEJ encourages personnel to perform boat cleaning operations on designated wash pads equipped with OWSs; however, unlike with ground vehicles and aircraft, no Base Orders or SOPs exist to make this a requirement.

3.2.3.2 Boat Maintenance

Coast Guard and Marine Corps watercraft maintenance facilities are used for general and preventive maintenance activities associated with various types of tactical watercraft. Maintenance activities are restricted to indoor maintenance facilities and include fluid changes, mechanical repairs, parts cleaning and replacement, sanding, refinishing, painting, and storage of boats for repair or maintenance. Routine preventive maintenance checks and inspections may be conducted in outdoor storage areas; however, these activities do not involve any fluid exchange or mechanical repairs and thus pose minimal risk to stormwater exposure.

Associated with watercraft maintenance is the storage of various replacement or used parts. On-site liquid storage may include POLs, antifreeze, cleaners, lacquers, thinners, and other solvents. Spills of these liquids may occur within these buildings from leaking, ruptured, or overturned containers or from leaking watercraft. Spill response procedures are well established and spill kits are available within each of the maintenance facilities.

Boat maintenance at recreational marinas includes many of the same spill hazards posed by Coast Guard and Marine Corps facilities; therefore, maintenance occurring at recreational marinas occurs indoors or undercover to limit exposure to stormwater.



3.2.3.3 Boat Fueling

Appendix G summarizes outdoor liquid transfer areas including boat fueling areas. The table in Appendix D presents an inventory of outdoor ASTs. During boat fueling operations, spill kits, absorbent booms, and other spill response devices are available. Many of the areas where boat fueling operations occur are covered and/or include containment curbing that drains to an OWS or other spill containment device.

3.2.4 Bulk Fuel Storage and Transfer

MCIEAST-MCB CAMLEJ has storage capacity for more than 4 million gallons of petroleum products at various locations. Most of this capacity is within aboveground bulk storage tanks, with additional capacity in underground storage tanks (USTs) and drum storage areas. Several individual storage sites exceed 10,000 gallons in capacity, and a few exceed 100,000 gallons in capacity. The largest single storage operation is the MCAS New River JP-5 fuel farm, with a capacity exceeding 800,000 gallons in multiple tanks. MCIEAST-MCB CAMLEJ uses, stores, and generates a variety of petroleum products, including, but not limited to, the following:

- Gasoline (Motor Fuel Gasoline [MOGAS] and E-85)
- Diesel Fuel
- Bio-Diesel Fuel
- No. 2 Fuel Oil
- Kerosene
- Jet Fuel (JP-5 and JP-8)
- Lubricating Oils
- Used Oils
- Grease
- Hydraulic Fluid

3.2.4.1 Aboveground Storage Tanks

ASTs are the preferred storage device for large required storage volumes, but are commonly used for small volumes as well. Petroleum product storage tanks are primarily constructed of steel, although some tanks are constructed of a combination of steel, polystyrene, high density polyethylene (HDPE), and reinforced concrete. Wall



thickness and corrosion protection for ASTs are considerations in tank design, which must be conducted under the supervision of a registered professional engineer. Most ASTs in use at MCIEAST-MCB CAMLEJ are equipped with some form of secondary containment.

At sites where the AST secondary containment may accumulate rainwater, drain valves are installed to allow accumulating rainwater to be drained. SOPs include a visual assessment of the rainwater prior to draining to ensure no fuel products are released to the environment. Under SPCC regulations (40 CFR 112), all rainwater releases from AST secondary containment systems must be documented. During normal operations, the AST containment rainwater drain valves remain closed and locked.

In some cases where ASTs are used in a temporary status, temporary containment structures or berms may be provided. Temporary containment includes some combination of culverts, gutters, sorbent barriers, earthen dikes, or sand bag diversionary devices. Most of these temporary containment structures are exposed to stormwater and do not have overhead cover. Where no containment is provided, MCIEAST-MCB CAMLEJ relies on strong spill contingency plans.

3.2.4.2 Drums and Small Containers

In cases where smaller volumes are needed, drums, or smaller containers may be used to transfer liquid fuel products. According to the FRP and SPCC Plan, all drums and smaller containers used at MCIEAST-MCB CAMLEJ are required to meet Department of Transportation container specifications for the materials stored, as specified in 49 CFR 172.

3.2.4.3 Fuel Farms

The largest main-side MCIEAST-MCB CAMLEJ fuel farm is located in the industrial area of Hadnot Point, with an office located in Building 1070. The fuel farm consists of the following storage vessels (not including generator ASTs):

- One 90,000-gallon Jet Fuel AST
- One 60,000-gallon MOGAS AST



- Two 15,000-gallon MOGAS ASTs
- Three 15,000-gallon diesel fuel ASTs
- One 15,000-gallon bio-diesel fuel AST
- One 10,000-gallon kerosene AST
- One 10,000-gallon E-85 AST

The MCAS New River fuel farm is located just north of the airfield with an office located in Building AS143. The Air Station fuel farm provides fuel for the Air Station's vehicle fleet and for the transfer of fuel to aircraft. The Air Station fuel farm consists of the following vessels (not including generator ASTs):

- Four 200,000-gallon JP-5 ASTs
- One 10,000-gallon MOGAS AST
- Two 500-gallon JP-5 ASTs
- Two 400-gallon diesel fuel ASTs
- One 350-gallon used fuel AST

Fuel transfer operations via the tanker trucks are referred to as "cold" fueling because the aircraft are not running during fueling. The USTs, located in the middle of the airfield, receive JP-5 from the ASTs via a pipeline that is approximately one mile in length. The USTs provide the fuel to eight "rapid refueling" stations, where aircraft are fueled "hot," with engines running.

In addition to the above referenced fuel farms, there are government fueling stations at the following locations (each location includes an AST fuel farm):

- CONT160 – Sneads Ferry Road Fueling Station
- CONT161 – Courthouse Bay Fueling Station
- CONT162 – River Road Fueling Station
- TC366 – Camp Geiger Fueling Station

3.2.5 Hazardous Material Treatment, Storage, or Disposal

There are three general types of HM/HW/POL management areas:

- Satellite accumulation areas (SAAs) – located at or near the process generating HM/HW/POLs. Small quantities of HM/HW/POLs are accumulated then transferred, as soon as practicable, to a more controlled location.
- Less than 90-day (< 90-day) accumulation areas – located at or near large quantity generators (greater than 13,200 pounds at any one time).



HM/HW/POLs may be accumulated for up to 90 days after the accumulation start date.

- Treatment, storage, or disposal facility (TSDF). Waste may be stored here for up to one (1) year.

Specific facilities at MCIEAST-MCB CAMLEJ are designated for storage of HM/HW/POLs. Generally, maintenance activities are restricted to designated maintenance facilities and the generation of HM/HW/POLs associated with these operations occurs indoors. Whenever practicable, HM/HW/POLs are stored indoors. Outdoor hazardous material management areas are surrounded by containment curbs and located under cover. Appendix E summarizes outdoor HM management areas including SAAs and < 90-day accumulation areas. There are no TSDFs currently operating at MCIEAST-MCB CAMLEJ.

All wastes generated at MCIEAST-MCB CAMLEJ are eventually transferred to a permitted offsite TSDF. TSDFs are facilities with EPA identification numbers that are regulated by RCRA permits authorizing treatment, storage, or disposal of received wastes.

3.2.6 Recycling and Scrap/Salvage

The DLADS Facility and the Material Recovery Facility comprise MCIEAST-MCB CAMLEJ's QRP:

The DLADS facility for MCIEAST-MCB CAMLEJ is located at Lot 201/203 (office located at Building 1081) along Holcomb Boulevard. This facility receives all used, damaged, or recyclable parts and equipment from maintenance and other operations that occur at MCIEAST-MCB CAMLEJ.

The Material Recovery Facility processes recyclable paper items such as cardboard, office paper, newspaper, magazines, and catalogs. Processed items are baled and/or boxed for direct sale.

The DLADS facility possesses a moderately high potential to pollute stormwater runoff. On this open lot, materials are generally segregated into various material types, such as brass, steel, and electrical parts. These materials and other items are stored directly



on the ground surface for varying lengths of time until auctioned. Other segregated materials and equipment are stored inside the DLADS warehouses.

Materials and equipment stored outside that could potentially affect the quality of stormwater runoff include solid waste dumpsters, scrapped vehicles, miscellaneous metals, wood products, and empty storage drums. The oxidation and natural decay of metals can contribute to water quality impairment by increasing metal concentrations in stormwater runoff. Other potential pollutant sources associated with recycling facilities include leaking vehicles, oils from scrap metals, paint, and drums that have not been cleaned.

There are numerous covered and uncovered metal recycling bins located throughout MCIEAST-MCB CAMLEJ. The metals accumulated in these bins and other recyclable metal materials are eventually transferred to the DLADS facility for recovery.

A metals recovery yard, an outdoor accumulation area for scrap metal recycling, is located on Lot 201. Several covered and uncovered large metal recycling bins and various miscellaneous metals are stored throughout this unpaved area. Scrap and solid waste material storage areas are included in Appendix F, which summarizes outdoor material storage areas.

3.2.7 Wastewater Treatment Works

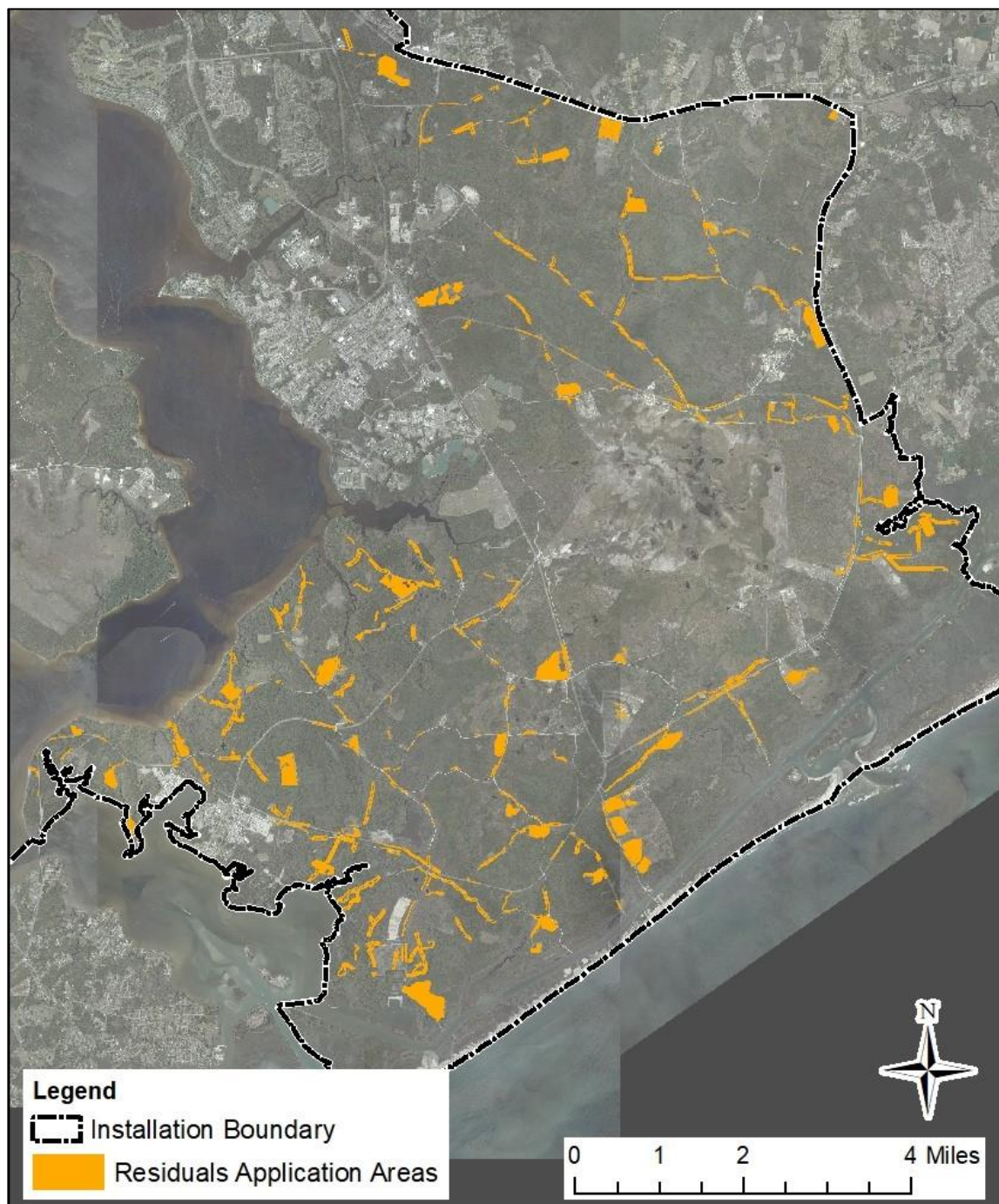
MCIEAST-MCB CAMLEJ operates and maintains an on-site AWWTP that serves both the MCB and the MCAS. The main office of the AWWTP is located at Building FC436. The AWWTP is capable of processing 15 MGD of domestic wastewater and currently treats an average of approximately 3.5 MGD. The AWWTP operates under current NPDES Permit Number NC0063029. Treated wastewater is discharged directly to Frenchs Creek. Stormwater from the facility discharges from treatment ponds to Frenchs Creek via outfall numbers OFC-001 and OFC-002. MCIEAST-MCB CAMLEJ operates a wastewater collection system (NPDES Permit Number WQCS00015) that consists of approximately 200 lift stations and over 100 miles of gravity and force main sewer piping.



Treated sludge, a byproduct of the wastewater treatment process, is disposed of through the MCIEAST-MCB CAMLEJ Residuals Distribution Program under current NC DEQ DEMLR Permit Number WQ0012346. Sludge is applied throughout MCIEAST-MCB CAMLEJ to a variety of areas such as tank trails, tactical landing zones, firing ranges, and forested areas. Figure 3-1 provides a map of current land application sites.



Figure 3-1 Map of Land Application Sites



HM/HW/POLs located at the AWWTP are stored in ASTs with sufficient secondary containment. The transfer of liquid chemicals at the AWWTP occurs within designated areas equipped with spill containment measures such as concrete berms. AWWTP



personnel are trained on spill response procedures and adequate spill response equipment is readily accessible.

The following HM/HW/POLs are located at the AWWTP:

- Diesel fuel
- Polymer/flocculant
- Methanol
- Sodium hydroxide
- Sodium hypochlorite
- Sulfuric acid
- Used Oil

Another potential pollution risk associated with operation of wastewater infrastructure is wastewater overflows, which can contaminate land and water. Untreated wastewater contains microbial pathogens that can cause disease. Wastewater spills into bodies of water can lead to oxygen deprivation, which can cause ecosystem impairment and result in mortality to a variety of organisms. MCIEAST-MCB CAMLEJ EMD maintains and updates an electronic database that provides a working record of all reported wastewater spills and overflows. This database may be obtained by contacting the SWPPM.

3.2.8 Landfills

The MCIEAST-MCB CAMLEJ RCRA Subtitle D MSW landfill receives solid waste that cannot be reused or recycled through the various programs that focus on waste reduction (refer to Section 3.2.6 Recycling and Scrap/Salvage). Landfill personnel monitor and weigh each solid waste load delivered to the landfill before it is deposited. Solid waste deemed reusable or recyclable is diverted to one of the recycling facilities. The Subtitle D landfill is located on Piney Green Road.

The landfill is double-lined and equipped with a leachate collection system and groundwater monitoring wells. In addition, the landfill includes facilities for diverting waste streams that may be recycled or composted, thus reducing dependence on the landfill and extending the landfill's lifecycle. At current usage rates, the landfill has a lifespan of approximately 30 years. The landfill is registered with the NC DEQ Solid Waste



Section under permit number 67-08. In accordance with permit requirements, landfill operators must receive training and supervision relative to the landfill's leachate collection and removal system as well as training to prevent damage to the landfill's liner.

Potential sources of stormwater pollution associated with the landfill include an onsite vehicle washing facility, sediment transport from unstable landfill cover and soil stockpile areas, and contaminated stormwater, which has accumulated either in dump trucks or dumpsters emptied into dump trucks, that has leached contaminants out of solid waste. MCIEAST-MCB CAMLEJO 11350.1A requires dumpsters to be washed at the unit level only into drains connected to the sanitary sewer system; however, a few specialty dumpsters are cleaned at the landfill. The onsite vehicle washing facility and the adjacent wash rack drain to an OWS that discharges to the sanitary sewer system.

3.2.9 Warehousing and Storage

Facilities engaged in general warehouse and storage operations are vital to MCIEAST-MCB CAMLEJ's mission. Most of these facilities are operated by the 2nd Marine Logistics Group, which conducts general and direct supply support operations and receives, stores, distributes, and manages supply materials. Warehouse and storage operations generally occur within buildings or under the cover of a canopy or roof structure; however, in some cases, these operations can be exposed to stormwater. Activities with the potential to pollute stormwater include storage, loading, and unloading of materials that may be exposed to stormwater.

3.2.10 Wood Product Manufacturing

Wood product manufacturing at MCIEAST-MCB CAMLEJ consists primarily of the small-scale production of nail and lock corner wood boxes, wood pallets, and wood range targets. Potential sources of stormwater pollution include sawdust and POLs used in routine maintenance of woodworking tools. Raw lumber used to manufacture wood products is stored both with and without overhead cover.



3.3 LEAKS AND SPILLS

The majority of leaks and spills observed at MCIEAST-MCB CAMLEJ are incidental, associated with minor POL leaks, and occurring mostly at vehicle maintenance and storage areas or food preparation facilities. Typical leaks and spills include grease, fuel, oil, antifreeze, or other chemical spills that occur during aircraft and vehicle fueling, maintenance, repair, or storage. None of the incidental leaks or spills observed during the SWPPP field assessments appear to pose any immediate threat to surface waters or stormwater discharges.

3.3.1 Spill Reporting and Recordkeeping

MCIEAST-MCB CAMLEJ ECB maintains records of all spills. Additionally, the operators of MCIEAST-MCB CAMLEJ facilities maintain logs of incident responses. The spill records identify the date, time, and details of each incident (e.g., what was released, what response actions were taken, and any injuries associated with the spill). EMD maintains and continuously updates spill records and documents spills within the eSWPPP database. Although few spills meet the hazardous substance reportable quantities, SOPs for MCIEAST-MCB CAMLEJ are to document every spill, regardless of quantity. Spills that exceed reportable quantities are reported to the appropriate external agencies, as required by regulation.

In addition to the requirements of the SWPPP program, the FRP and SPCC Plan also require ongoing documentation of spills. Significant spills are defined as greater than 25-gallons of petroleum products, greater than 1,000 gallons of sewage (wastewater), or any spill that discharges to the storm sewer system.

Detailed spill reports are used to provide environmental managers with information concerning sites where repetitive spill incidents may occur. This information is used to target pollution prevention activities and determine the root cause of repetitive spills to better implement proactive corrective actions. A typical overview of the spill reporting process is as follows:

1. A spill occurs and facility personnel report the spill to 911. Applicable emergency response personnel are dispatched to the site of the spill.



2. EMD is notified and dispatches an inspector.
3. Emergency responders either initiate spill cleanup or call the Resource Conservation and Recovery Section for cleanup assistance.
4. Spills that exceed reportable quantities (e.g., 25-gallons or more of petroleum products) are reported by EMD to NC DEQ.
5. EMD generates a summary PowerPoint presentation detailing the spill event.
6. EMD documents the spill using the "illicit discharge" tab of the eSWPPP database.
7. EMD conducts facility level training, as needed, or provides higher chain-of-command notifications if deemed necessary.

3.4 INVENTORY OF ILLICIT DISCHARGES

An illicit discharge is a "non-stormwater discharge" that is not specifically allowed by the Permit. A non-stormwater discharge is described as any flow into the storm sewer system that is not related to runoff from rainfall or other precipitation. Examples of non-stormwater discharges include steam condensate, cross-connections with the sanitary sewer, discharges of vehicle wash water via overflows of clogged OWSs at wash racks, fuel spills, contaminated groundwater infiltration, and improper disposal of HM (e.g., paint, solvents) into the storm sewer system.

The Permit allows the following non-stormwater discharges:

- Discharges permitted by, and in compliance with, another NPDES discharge permit including discharges of process and non-process wastewater and stormwater associated with industrial activity
- Water line flushing
- Landscape irrigation
- Diverted stream flows
- Rising groundwaters
- Uncontaminated groundwater infiltration
- Uncontaminated pumped groundwater
- Discharges from potable water sources
- Foundation drains
- Air condition condensate (commercial/residential)
- Irrigation waters
- Springs
- Water from crawl space pumps
- Footing drains



- Lawn watering
- Residential and charity car washing
- Flows from riparian habitats and wetlands
- Dechlorinated swimming pool discharges
- Street wash water
- Flows from emergency firefighting
- Releases of clean waters from hydrostatic testing
- Drainage of uncontaminated stormwater from secondary containment after visual monitoring

EMD maintains a continuously updated inventory of spills and illicit discharges using the eSWPPP database. EMD staff can query this inventory at any time.

3.5 INVENTORY OF KNOWN POTENTIAL POLLUTANT SOURCES

The SWPPP inventory includes the following known potential pollutant sources:

- Outdoor ASTs
- Outdoor HM/HW management areas
- Outdoor material storage areas (including dumpsters)
- Outdoor liquid transfer areas
- OWSs

The SWPPP compliance assessors recorded descriptive information, such as material and quantity stored, for each potential pollutant source. Appendices D through H contain summary tables of the data collected.

Based on the field observations, the SWPPP compliance assessors assigned a stormwater pollution potential rating of low, medium, or high to each potential pollutant source. This rating reflected a site-specific risk assessment of pollutant releases that could reasonably be expected to discharge into navigable waterways. The following site characteristics were considered when assigning a stormwater pollution potential rating:

- Type and quantity of stored material
- Type of containment provided (if applicable)
- Type of cover provided (if applicable)
- Proximity to navigable waterways, tributaries, and associated storm drains



- Topography (mild, medium, or steep slopes)
- Presence of vegetative buffers (filtering and reduced runoff velocities)
- Soil type (infiltration, adsorption)
- Documented spills
- Evidence of undocumented spills

The definitions for each risk category are as follows:

- Low - Low risk of stormwater exposure and/or environmental impairment, unlikely to result in any measurable impact. No BMPs or additional BMPs warranted.
- Medium - Potential risk and/or limited exposure to stormwater runoff, possible environmental impacts through widespread common occurrences of specific risks. BMPs or additional BMPs may be appropriate.
- High - Raw material or polluting liquid exposed to stormwater, not necessarily an indicator of current environmental damage, however, situation requires implementation of corrective actions and/or BMPs to prevent measurable impact to stormwater. Observations of a failed BMP constitute a high risk. New BMPs or additional BMPs are always warranted for these sites.

Appendix I (Prediction of Industrial Discharges), which is maintained separate from the SWPPP by the SWPPM, summarizes all assets in Appendices D through H that have been assigned a risk category of "medium" or "high." Appendix I includes the pollution source type, associated facility, outfall, deficiency observed, expected potential pollutant, and recommended corrective action or BMP.

3.5.1 Inventory of Outdoor Aboveground Storage Tanks

MCIEAST-MCB CAMLEJ uses ASTs in sizes varying from tens of gallons to tens of thousands of gallons for storing a variety of liquids including gasoline, jet propellant, diesel, and several others. ASTs, if not properly managed through regular inspection, maintenance, and secondary containment practices, have potential for incidental releases of POLs and other liquids that could harm the environment. The table in Appendix D presents an inventory of outdoor ASTs organized by outfall or sheet flow drainage area and building number. The appendix also includes AST material, contents, volume, secondary containment type, and stormwater pollution potential rating.



3.5.2 Inventory of Outdoor HM/HW Management Areas

This SWPPP defines HM/HW management areas as unit level storage facilities dedicated to the storage of HM/HW/POLs. Improper storage of HM/HW/POLs has the potential to introduce harmful substances into the environment. The table in Appendix E presents an inventory of hazardous material management areas organized by outfall or sheet flow drainage area and building number. The appendix also includes the type of storage, hazardous material managed, responsible unit, containment type, and stormwater pollution potential rating.

3.5.3 Inventory of Outdoor Material Storage Areas

Outdoor material storage areas, for the purpose of this SWPPP, refer to storage of a significant quantity of materials that do not fall under the classification of HM/HW/POL. Outdoor material storage areas include vehicle motor pools, equipment storage yards, aircraft stored on the flight line, and boat storage yards. The inventory also includes solid waste and recyclables dumpsters. Outdoor material storage areas and dumpsters are often exposed to stormwater, which can wash away or leach harmful substances from the materials stored if not properly managed. The table in Appendix F presents an inventory of outdoor material storage areas organized by outfall or sheet flow drainage area and building number. The appendix also includes the type of storage, material(s) stored, approximate quantity, BMPs observed, and stormwater pollution potential rating.

3.5.4 Inventory of Outdoor Liquid Transfer Areas

Outdoor liquid transfer areas at MCIEAST-MCB CAMLEJ are areas where POLs are transferred in bulk or otherwise. Transfer of large quantities of POLs inherently involves the risk of accidental releases to the environment. The table in Appendix G presents an inventory of outdoor liquid transfer areas organized by outfall or sheet flow drainage area and building number. Appendix G includes the transfer operation type, liquid transferred, maximum potential spill quantity, secondary containment type, and stormwater pollution potential rating.



3.5.5 Inventory of Oil/Water Separators

OWSs at MCIEAST-MCB CAMLEJ are typically provided for vehicle and aircraft washing and maintenance operations as well as fuel loading/unloading operations. The majority of OWSs discharge to the sanitary sewer system; however, some discharge directly to the storm sewer system, state waters, or to subsurface drain fields. Many OWSs include an overflow bypass feature that discharges to the storm sewer system. If an OWS becomes clogged, the overflow bypass feature could discharge potentially contaminated water to the storm sewer system. The Permit requires an inventory of OWSs that discharge, directly or otherwise, to the storm sewer system or state waters. Appendix H inventories all OWSs located at regulated industrial facilities regardless of discharge route. MCIEAST-MCB CAMLEJ maintains a separate *Oil Pollution Abatement Facility Inventory* (AH, 2021) that provides detailed information for all OWSs located base-wide (including MCAS New River and all outlying areas). This inventory includes OWS cross-section schematics; GIS-based maps with OWS location, influent sources, and discharge route(s); and detailed design information, capacities, and flow rates.

3.6 PREDICTION OF POTENTIAL POLLUTANT DISCHARGES

Appendix I (Prediction of Industrial Discharges), which is maintained separate from the SWPPP by the SWPPM, summarizes predicted (potential) industrial type discharges organized by outfall or sheet flow drainage area and building number. Appendix I includes the deficiencies observed, expected potential pollutants, and recommended corrective action or BMP.

The prediction of industrial type discharges is based on industrial activities exposed to stormwater, including the following: ASTs, HM management areas, outdoor material storage areas, and outdoor liquid transfer areas that have been identified as having a "medium" or "high" potential to pollute stormwater.



4. BEST MANAGEMENT PRACTICES

MCIEAST-MCB CAMLEJ personnel are successfully implementing many BMPs to protect receiving streams and watercourses from adverse water quality impacts resulting from chemical spills and/or contaminated stormwater runoff. BMPs are categorized as either structural or non-structural. Structural BMPs are engineering solutions to stormwater management; whereas, non-structural BMPs have no associated physical structure and achieve stormwater management through education and/or procedural practices. The following sections present a narrative description of existing BMPs and recommend BMPs for specific regulated industrial activities.

4.1 STRUCTURAL BEST MANAGEMENT PRACTICES

Structural BMPs are physical measures employed to control stormwater run-on/runoff. Structural BMPs can be constructed on-site or may be manufactured and installed (e.g., portable, prefabricated HM building).

Structural BMPs currently implemented at MCIEAST-MCB CAMLEJ include the following:

- Secondary containment
- Spill containment basins
- Portable containment devices
- Canopy and roof structures
- OWSs
- Modular or prefabricated HM/HW/POL storage buildings
- Erosion and sediment control (E&SC) measures
- Stormwater management facilities and devices

4.1.1 Secondary Containment

Secondary containment should be implemented at all outdoor AST and HM/HW/POL storage locations. The purpose of secondary containment is to prevent pollutant releases to the environment by providing a second container for unexpected releases



from the stored tanks, drums, or other containers. Many of the ASTs at MCIEAST-MCB CAMLEJ are fitted with either permanent or temporary secondary containment. Secondary containment usually consists of vaulted tanks (double-walled tanks), spill pallets, and structures such as concrete curbs, berms, or dikes. SOPs exist to visually inspect the containment area and to drain stormwater accumulations after precipitation events. Secondary containment structures are often followed by spill containment basins (refer to the following section).

4.1.2 Spill Containment Basins

Spill containment basins are typically concrete tanks located downstream of activities with the potential to release large volumes of HM/HW/POL liquids to the environment such as fuel transfer operations. These basins may or may not be connected to the sanitary or storm sewer system; however, if they are connected, they are isolated by a valve or valves maintained in the closed position. After rain events, it is necessary to drain accumulated stormwater according to standard procedures.

4.1.3 Portable Containment Devices

Portable containment devices are used to provide protection against incidental releases from non-stationary potential sources of stormwater pollution. HM/HW/POL drums, portable generators, vehicles, and aircraft are examples of non-stationary potential stormwater pollutant sources. Portable containment devices include drip pans, spill pallets, collapsible PIG[®] mats, and portable containment berms. Portable containment devices are effective when implemented along with SOPs and personnel training regarding proper use.

4.1.4 Canopy and Roof Structures

Canopy and roof structures are used in many material storage areas at MCIEAST-MCB CAMLEJ to provide overhead cover and reduce or prevent material exposure to precipitation. These structures reduce the potential for significant contact between stored potential pollutants and stormwater, corrosion of storage devices, and ultraviolet deterioration of plastic containment and storage structures.



4.1.5 Oil/Water Separators

Many vehicle/aircraft maintenance and washing activities at MCIEAST-MCB CAMLEJ utilize OWSs to capture POL pollutant discharges. OWSs that are connected to the sanitary sewer system, the storm drainage system, or both, are inspected periodically and maintained as needed. Personnel periodically remove grit, oily sludge, and other solids from OWSs to minimize the potential for bypass releases from the OWSs to the sanitary and/or storm sewer system during heavy flows. Appendix H provides an inventory of OWSs located at facilities engaging in regulated industrial activities at MCIEAST-MCB CAMLEJ.

4.1.6 Modular HM/HW/POL Storage Buildings

Most military and non-military activities, including tenants, store HM/HW/POLs in pre-fabricated, weatherproof buildings with integral containment, usually a sump to contain leaks or spills. These buildings provide adequate containment and cover for materials, thus eliminating the need to release rainfall that might collect in outdoor containment areas. As with other roof structures, the cover reduces the rate of drum and package deterioration that could result in spills and leaks to the environment.

4.1.7 Erosion and Sediment Control

E&SC measures are implemented at MCIEAST-MCB CAMLEJ in an effort to minimize the quantity of sediment introduced to streams and waterways. E&SC measures include:

- Vegetation of slopes and ditches to discourage erosion and encourage infiltration.
- Placement of riprap where high stormwater velocity may cause scouring and erosion at stormwater outlets.
- Installation of sediment fence to intercept soil washed away during storm events from exposed soil as a result of construction activities.
- Installation of flow control devices such as check dams to reduce flow velocity of stormwater runoff, thereby reducing erosion and encouraging settlement of suspended sediment.



4.1.8 Stormwater Management Facilities and Devices

MCIEAST-MCB CAMLEJ uses various stormwater management facilities and devices to control runoff volumes and improve water quality. These stormwater controls are selected, sized, and constructed to manage runoff from specific sites. Stormwater management facilities and devices include dry (detention) and wet (retention) ponds, infiltration basins, bioretention basins, permeable pavement, vegetated swales, vegetated buffer strips, level spreaders, manufactured catch basin inserts, and other control measures. These controls are often implemented in series to increase pollutant removal efficiency.

4.2 NON-STRUCTURAL BEST MANAGEMENT PRACTICES

Non-structural BMPs are best represented as management procedures, plans, policies, and SOPs. Knowledge of existing and recommended procedures and associated training is paramount to non-structural BMP implementation. Existing environmental management plans, previously referenced in Section 2.4 (Review of Existing Management Plans and Reports), establish a coordinated program of non-structural control measures for management of HM/HW/POLs and other materials exposed to stormwater; operation and maintenance of pollution abatement equipment; and spill response and cleanup.

MCIEAST-MCB CAMLEJ currently implements the following non-structural BMPs:

- Good housekeeping
- Periodic visual inspection of outfalls
- Spill prevention and response
- HM/HW/POL SOPs
- Aircraft fueling/defueling SOPs
- Secondary containment management practices
- Personnel training
- Preventive maintenance
- SWPPP field assessment
- Recordkeeping



The following subsections summarize non-structural BMPs employed at MCIEAST-MCB CAMLEJ.

4.2.1 Good Housekeeping

Good housekeeping requires maintaining all areas that may contribute pollutants to stormwater discharges by ensuring they stay in a clean, orderly state. Particular attention is paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, and loading/unloading areas.

4.2.2 Outfall Monitoring

The Permit mandates qualitative and analytical monitoring of stormwater discharges and process wastewaters associated with industrial activity from specific outfalls. The SWOMP details procedures and sampling location maps for each monitoring point. MCIEAST-MCB CAMLEJ permit monitoring requirements are summarized below.

4.2.2.1 Visual Monitoring

Qualitative, or visual, monitoring is required at each outfall with a contributing drainage basin that contains a regulated industrial activity. The SWOMP identifies visual observation point (VOP) locations. MCIEAST-MCB CAMLEJ EMD personnel perform visual assessments at each VOP twice a year. The VOP assessments include observation and documentation of parameters such as color, clarity, odor, presence of oil sheen or suspended solids, and other visual indicators for polluted water. In contrast to analytical monitoring, visual monitoring is not required to be conducted during a representative rainfall event. The VOP assessments must be conducted in a well-lit area. Where practicable, the same individuals should carry out the VOP assessments for the entire permit term.

Qualitative monitoring indicating that significant stormwater pollution is present prompts further investigations into the potential sources and causes of the pollution. Based on the investigations, personnel evaluate and select corrective actions for implementation. The SWPPC maintains a written record of this process. Table 4-1 lists each industrialized outfall at MCIEAST-MCB CAMLEJ for which a VOP must be maintained based on



the results of the 2020 – 2021 SWPPP field assessments and the 2021 SWOMP update.

Table 4-1 Industrialized Outfalls with Visual Observation Points

Base Area	VOPs
Amphibious Base (AB)	OAB-001, OAB-002, OAB-003, OAB-006, OAB-007
Air Station (AS)	OAS-001, OAS-002, OAS-003, OAS-004, OAS-005, OAS-006, OAS-008, OAS-010, OAS-014 (2 VOPs), OAS-018, OAS-021, OAS-030, OAS-032, OAS-037
Courthouse Bay (CB)	OCB-001, OCB-013, OCB-014, OCB-016 (2 VOPs)
Camp Johnson (CJ)	OCJ-001, OCJ-003, OCJ-004 (2 VOPs)
Frenchs Creek (FC)	OFC-001, OFC-002, OFC-003, OFC-004 (2 VOPs), OFC-005, OFC-006 (3 VOPs), OFC-008, OFC-009, OFC-012, OFC-013, OFC-026, OFC-027
Hadnot Point (HP)	OHP-001, OHP-002 (2 VOPs), OHP-003, OHP-004, OHP-005, OHP-006 (3 VOPs), OHP-007, OHP-008, OHP-010, OHP-011, OHP-012, OHP-013 (2 VOPs), OHP-014, OHP-015, OHP-017, OHP-018 (2 VOPs), OHP-019 (4 VOPs), OHP-021 (2 VOPs), OHP-022, OHP-024, OHP-027, OHP-035, OHP-038, OHP-042, OHP-043, OHP-044, OHP-045
Landfill (LF)	OLF-001, OLF-002
Naval Hospital (NH)	ONH-001, ONH-002
Old Hospital (OH)	OOH-008
Rifle Range (RR)	ORR-001, ORR-003, ORR-012, ORR-013, ORR-014
Sandy Run (SR)	OSR-001
Camp Geiger (TC)	OTC-002, OTC-002B, OTC-003, OTC-004 (2 VOPs), OTC-005
Wallace Creek (WC)	OWC-001, OWC-002, OWC-003, OWC-004, OWC-005 (2 VOPs), OWF-001

4.2.2.2 Analytical Monitoring

In addition to the qualitative monitoring requirement, MCIEAST-MCB CAMLEJ implements an analytical monitoring program in accordance with the Permit requirements. Analytical samples are collected once per year from seven (7) representative outfalls distributed throughout MCIEAST-MCB CAMLEJ. Analytical sampling points are located at representative stormwater outfalls with characteristics that typify industrialized outfalls at MCIEAST-MCB CAMLEJ. Table 4-2 specifies the representative industrialized outfalls that currently serve as the analytical sampling points.



Table 4-2 Representative Outfalls for Analytical Monitoring

Base Area	Representative Outfall (Analytical Sampling Point)	Industrial Activities Represented
Air Station	OAS-005	Air transportation operations; ground transportation operations; bulk fuel storage and transfer; warehousing and storage
Air Station	OAS-018	Air transportation operations
Camp Geiger	OTC-003	Warehousing and storage; bulk fuel storage and transfer
Frenchs Creek	OFC-003	Ground transportation operations
Hadnot Point	OHP-004	Ground transportation operations
Hadnot Point	OHP-008	Ground transportation operations; warehousing and storage; wood product manufacturing
Wallace Creek	OWC-001	Ground transportation operations

Table 4-3 identifies the parameters monitored at each of the analytical sampling points.

Table 4-3 Analytical Sampling Parameters

Parameter	Measurement Frequency ¹	Units	Sample Type
Oil and Grease	Once per year	milligrams per liter (mg/L)	Grab
pH	Once per year	standard units	Grab
Total Suspended Solids (TSS)	Once per year	mg/L	Grab
Total Flow	Once per year	million gallons	Not applicable (N/A)
Event Duration	Once per year	minutes	N/A
Total Rainfall	Once per year	inches	N/A

1) Measurement Frequency: Once per year during a representative storm event.

4.2.3 Spill Prevention and Response

Non-structural measures implemented to prevent accidental leaks and spills include periodic inspections of storage sites to identify deterioration of containers or other conditions that could potentially lead to a release. The FRP and SPCC Plan, which are available at EMD upon request, detail spill response, cleanup, and prevention measures.

The FRP and SPCC Plan provide procedures for reporting and cleanup of HM/HW/POL spills and include the following topics:



- Spill response actions
- Spill response equipment
- Spill reporting and notification guidance
- Spill reports
- Spill prevention measures
- Spill response scenarios
- HM/HW/POL operating procedures

Upon detection of a spill, the discovering personnel will immediately implement spill response measures detailed in the FRP and SPCC Plan. These spill response measures range from large scale catastrophic events to small incidental leaks. Emergency response measures include responses involving releases of HM/HW/POLs and chemicals such as chlorine. Any questions on spill response, prevention, or notification and reporting requirements that are not fully addressed in the FRP and SPCC Plan should be directed to EMD.

AH SWPPP compliance assessors observed MCIEAST-MCB CAMLEJ personnel implementing approved corrective actions for small spills and leaks. Examples of spill response measures observed include the use of dry sweep and absorbent matting for small spills, and the use of drip pans for vehicle storage areas. These observations suggest adequate implementation of the FRP and SPCC Plan spill response and prevention measures.

4.2.4 HM/HW/POL SOPs

There are many measures implemented for HM/HW/POL storage facilities to minimize the occurrence of spills, releases, fires, and other accidents. EMD is responsible for ensuring that BMPs are implemented at each HM/HW/POL storage site. The FRP and SPCC Plan detail HM/HW/POL storage and handling procedures. The following recommended general practices relate to HM/HW/POLs:

- Provide adequate aisle space to facilitate material transfer and provide easy access for inspections
- Store HM/HW/POLs away from high-traffic areas to minimize accidental spills
- Stack containers according to manufacturers' instructions
- Store HM/HW/POLs off the ground to prevent corrosion from moisture



- Assign the responsibility of HM/HW/POL inventory and training to supervisory personnel, and ensure only qualified personnel handle HM/HW/POLs
- Identify the chemical substances present in a work area and keep an up-to-date list of the required safety data sheets
- Label HM/HW/POL containers to identify the contents, health hazards, special handling requirements, and first aid information
- Ensure material storage units are maintained in good condition
- Store materials indoors where practicable
- Provide adequate secondary containment for stored materials

Hazardous materials generated at MCIEAST-MCB CAMLEJ are transported offsite via DLADS or through service contracts. EMD oversees disposal and/or reuse of oil sludge from OWSs in accordance with applicable permits. Petroleum contaminated soil is properly contained in compliance with NC and federal regulations, manifested, and transported offsite via DLADS.

4.2.5 Aircraft Fueling/Defueling SOPs

All aircraft fuel transfer operations occur within 50 feet of a grounding connection. Prior to fueling, aircraft are parked, by squadron, in their designated fueling location, engines are shut down, and wheels locked in-place.

SOPs dictate that aircraft fueling/defueling operations occur at designated fuel transfer areas (with some exceptions) with containment structures that ensure any spills are directed to OWSs discharging to the sanitary sewer system.

When aircraft fueling/defueling occurs outside of these contained, designated fuel transfer areas, specific practices are required of MCAS personnel. A tactical mobile tanker is positioned as close as possible to the aircraft designated for fueling. The tanker truck engine is turned off, parking brake engaged, and wheels locked to prevent vehicle motion during the fueling operation. Grounding mechanisms are connected to the aircraft and tanker. Aircraft cannot be fueled if the truck and aircraft are not grounded. A minimal length of hose is used to complete the connection between the truck and the aircraft, thereby limiting the amount of hose that must be emptied following fueling and reducing the potential for spillage.



Rotary wing aircraft are fueled by gravity from the tanker trucks. Per the FRP and SPCC Plan, MCAS New River follows a rigorous spill reporting and training program. All leaks or product spills must be reported, giving location, product spilled, and approximate volume spilled.

4.2.6 Secondary Containment Management Practices

Management practices for secondary containment structures at MCIEAST-MCB CAMLEJ are generally presented in the SPCC Plan, which requires regular inspections of ASTs and containment structures. All releases of rainwater from containment structures must be documented and drain valves should be maintained in the closed position.

4.2.7 Stormwater Pollution Prevention Training

Stormwater training for MCIEAST-MCB CAMLEJ is designed to inform the personnel responsible for implementing activities identified in the SWPPP, or who are otherwise responsible for stormwater management, of the SWPPP components and goals. MCIEAST-MCB CAMLEJ provides environmental training in a traditional classroom format and through computer-based training available through the USMC eLMS. Applicable SWPPP-related personnel at each industrial facility are required to take one or more of the following classroom training modules:

- Initial & Refresher HM / HW Training (EM-101 & EM-102)
- HM Transportation Class for Fuel Drivers (EM-103)
- Environmental Compliance Coordinator and Compliance Officer Seminar (EM-104)
- Aboveground Storage Tank / SPCC Training (EM-107)
- Oil/Water Separator (OWS) and Pollution Abatement System (PAS) Training (EM-108)

These training modules adequately cover the following items:

- SWPPP requirements as they relate to individual personnel job functions
- Required BMPs
- Proper inspection, handling, and storage procedures of materials with the potential to pollute stormwater



- Spill prevention and response procedures for spills, leaks, or breaks in any structural control

4.2.8 Preventive Maintenance of Stormwater Controls

The preventive maintenance program involves timely inspection and maintenance of stormwater management controls (catch basins, ponds, sand filters, bioretention areas, etc.). The program also includes inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters. These inspections ensure that the appropriate maintenance of such equipment and systems continues. Section 2.1 (Stormwater Pollution Prevention Committee) describes the roles and responsibilities of the environmental protection specialists related to inspections within the preventative maintenance program.

4.2.9 SWPPP Field Assessments

The SWPPP compliance assessors verify implementation of the SWPPP provisions in conjunction with the continuous internal multimedia environmental compliance audit administered by MCIEAST-MCB CAMLEJ ECB. The goal of the environmental compliance audit is to ensure MCIEAST-MCB CAMLEJ achieves and maintains regulatory compliance through pollution prevention efforts in accordance with federal and state regulations. This is accomplished through a continuous self-audit program and coordination of inspections by Headquarters Marine Corps, the Commanding General's Inspection Program, the EPA, and NC DEQ. ECB coordinates environmental monitoring, environmental compliance evaluations, and compliance tracking initiatives for HM/HW/POLs, pollution abatement facilities, solid wastes, air quality, and wastewater and stormwater collection systems. During these inspections, assessment personnel review the following:

- Good housekeeping practices
- Waste disposal procedures
- E&SC practices
- Tank and drum storage practices (including secondary containment)
- Containment rainwater release procedures and documentation
- Activity inspection logs and reports



- Spill response procedures and equipment
- Ground vehicle and aircraft washing procedures
- Training documentation
- Spills and leaks records

Compliance with SWPPP requirements will be assessed and documented via the electronic eSWPPP mapping and database software. Following the inspections, the SWPPP compliance assessors will compile regulatory concerns for review by the SWPPC. The SWPPC will recommend corrective actions on a case-by-case basis when deficiencies are documented.

4.2.10 Reporting and Recordkeeping

Reporting and recordkeeping practices ensure accountability and provide a measure of performance of pollution prevention programs. Maintaining an ongoing record aids in the preparation and enhancement of updates to the various programs concerned with pollution prevention. Records must be maintained for spills and leaks, visual monitoring, and BMP inspection and maintenance activities. Records of corrective actions related to ineffective BMPs must also be maintained. Information gathered during SWPPP field assessments and other assessments and inspections prescribed by pollution prevention programs, such as the SPCC plan, is generally stored for a specified amount of time for review by varying authorities. The period of time this data is required to be maintained varies by permit.

MCIEAST-MCB CAMLEJ ECB maintains records of past spills using the eSWPPP software. Operators of facilities also maintain records of spill incidents and responses. These records identify the date, time, and details of each incident (e.g., what was released, what response actions were taken, injuries). Although few spills meet the hazardous substance reportable quantities, SOPs require documentation of every spill, regardless of quantity. Spills that exceed reportable quantities are reported to the appropriate external agencies, as required by regulation. Significant spills are defined as greater than 25 gallons of petroleum products, greater than 1,000 gallons of sewage (wastewater), or any spill that discharges to the storm sewer system.



5. RECOMMENDATIONS

This section addresses potential enhancements to the stormwater pollution prevention efforts at MCIEAST-MCB CAMLEJ.

5.1 EDUCATION AND TRAINING

MCIEAST-MCB CAMLEJ provides several training programs that include stormwater pollution prevention training. Refer to Section 2.4.1 (CETEP) for a description of CETEP. Training is available in a traditional classroom format at MCIEAST-MCB CAMLEJ and through computer-based training available through USMC eLMS.

The deficiencies observed during the 2020 – 2021 SWPPP field assessments of facilities engaging in regulated industrial activities could generally be corrected through more widespread education and training of applicable facility personnel. Many of the observed deficiencies (e.g., improper/inadequate use of drip pans) are covered in detail in the existing stormwater pollution prevention training.

5.2 SOLID WASTE MANAGEMENT

Pollution prevention practices for solid waste management dumpsters, as outlined in current Base Orders and SOPs, should be followed. During the SWPPP field assessments, AH observed solid waste dumpsters throughout MCIEAST-MCB CAMLEJ with the following deficiencies:

- Top cover open, broken, or missing
- Side doors open
- Drain plugs broken or missing

These observations were prevalent in all industrial areas. Precipitation allowed to enter dumpsters due to improper cover or open side doors leaches contaminants from solid waste. Broken or missing drain plugs allow accumulated, contaminated rainwater to discharge to the environment. AH recommends an initiative to address these



deficiencies (increased training recommended in Section 5.1 Education and Training could adequately address the observed solid waste management deficiencies).

5.3 POTENTIAL POLLUTANT SOURCES

During the SWPPP field assessments, AH assigned each potential pollutant source (e.g., AST, outdoor material storage area, etc.) a stormwater pollution potential rating of low, medium, or high. This rating was based on a site-specific risk assessment of pollutant releases that could reasonably be expected to discharge into navigable waterways. Refer to Section 3.5 (Inventory of Known Pollutant Sources) for definitions for each risk category.

Appendix I (Prediction of Industrial Discharges), which is maintained separate from the SWPPP by the SWPPM, summarizes the 58 potential pollution sources applicable to the SWPPP assigned a risk category of "medium" or "high," and recommends BMPs (structural and/or non-structural) or corrective actions to address each.



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APPENDIX A

NPDES Permit Number NCS000290

**STATE of NORTH CAROLINA DEPARTMENT of ENVIRONMENTAL QUALITY
DIVISION of ENERGY, MINERAL, and LAND RESOURCES**

PERMIT NO. NCS000290

**TO DISCHARGE STORMWATER UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with applicable law, including the regulations promulgated and adopted by the North Carolina Environmental Management Commission, and the Federal Water Pollution Control Act, as amended,

United States Marine Corps

is hereby authorized to discharge stormwater and continue operation of oil water separators not associated with wastewater discharges from facilities located at:

Marine Corps Base Camp Lejeune and Marine Corps Air Station New River
herein referred to as Camp Lejeune
Onslow County

to receiving waters designated as Bear Creek (SB, NSW), Beaverdam Creek (SB, NSW), Cogdels Creek (SC, NSW), New River (SC, HQW, NSW, SC, NSW, SA), Wallace Creek (SB, NSW), Frenchs Creek (SC, NSW), Edwards Creek (SC, NSW), Strawhorn Creek (SC, NSW), Stick Creek (SC, HQW, NSW), Southwest Creek (C, NSW), Courthouse Bay (SA), Stones Creek (SA), Brinson Creek (SC, NSW), Northeast Creek (SC, HQW, NSW), Scales Creek (SC, HQW, NSW), Wilson Bay (SC, HQW, NSW), Mott Creek (C, NSW), Morgan Bay (SC, NSW), and Farnell Bay (SC, NSW) in the White Oak River Basin in accordance with the discharge limitations, monitoring requirements, and other conditions set forth in Parts I, II, III, IV, V, VI, and VII hereof.

This permit shall become effective October 1, 2021.

This permit and the authorization to discharge are subject to applicable law and shall expire at midnight on September 30, 2026.

Signed this 24th day of September 2021.



for Brian Wrenn, Director
Division of Energy, Mineral, and Land Resources
By the Authority of the Environmental Management Commission

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PART 1: PERMIT COVERAGE

1. During the period beginning on the effective date of the permit and lasting until expiration, Marine Corp Base Camp Lejeune and Marine Corps Air Station New River, herein referred to as Camp Lejeune and/or the permittee, is authorized to discharge stormwater from the Municipal Separate Storm Sewer System (MS4) and continue operation of oil water separators not associated with wastewater discharges to receiving waters.
2. Receiving waters for discharges from the permittee's MS4 are designated as: Bear Creek (SB, NSW), Beaverdam Creek (SB, NSW), Cogdels Creek (SC, NSW), New River (SC, HQW, NSW, SC, NSW, SA), Wallace Creek (SB, NSW), Frenchs Creek (SC, NSW), Edwards Creek (SC, NSW), Strawhorn Creek (SC, NSW), Stick Creek (SC, HQW, NSW), Southwest Creek (C, NSW), Courthouse Bay (SA), Stones Creek (SA), Brinson Creek (SC, NSW), Northeast Creek (SC, HQW, NSW), Scales Creek (SC, HQW, NSW), Wilson Bay (SC, HQW, NSW), Mott Creek (C, NSW), Morgan Bay (SC, NSW), Farnell Bay (SC, NSW), and their tributaries in the White Oak River Basin.
3. Discharges from the permittee's MS4 shall be controlled, limited, and monitored in accordance with this permit and the permittee's Comprehensive Stormwater Management Program Plan, herein referred to as the Stormwater Plan.
4. Under the authority of Section 402(p) of the Clean Water Act and implementing regulations 40 CFR Part 122, 123 and 124, North Carolina General Statute 143-215.1, and Session Law 2006-246, all provisions contained and referenced in the Stormwater Plan are enforceable parts of this permit.
5. The issuance of this permit does not prohibit the Division from reopening and modifying the permit, revoking and reissuing the permit, or terminating the permit as allowed by the laws, rules, and regulations contained in Title 40, Code of Federal Regulations, Parts 122 and 123; Title 15A of the North Carolina Administrative Code, Subchapter 2H .0100; and North Carolina General Statute 143-215.1 et. al.
6. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
7. No provisions of this permit shall be interpreted as or constitute a commitment that the permittee will obligate or pay funds in contravention of the Anti-Deficiency Act, 31 U.S.C. Section 1341.
8. All discharges authorized herein shall be lawfully managed in accordance with the terms and conditions of this permit. Any other point source discharge to surface waters of the state is prohibited unless it is an allowable non-stormwater discharge or is covered by another permit, authorization, or approval.
9. This permit does not relieve Camp Lejeune from responsibility for compliance with any other applicable federal, state, or local law, rule, standard, ordinance, order, judgment, or decree.
10. The permit authorizes the point source discharge of stormwater runoff from the permittee's MS4. Unless the Division requires that specific non-stormwater flows be controlled, the discharge of non-stormwater is also authorized through the MS4 if such discharges are:

- (a) Permitted by, and in compliance with, another NPDES discharge permit including discharges of process and non-process wastewater, and stormwater associated with industrial activity; or
- (b) Determined to be incidental non-stormwater flows that do not significantly impact water quality and may include:
 - water line flushing;
 - landscape irrigation;
 - diverted stream flows;
 - rising groundwaters;
 - uncontaminated groundwater infiltration;
 - uncontaminated pumped groundwater;
 - discharges from potable water sources;
 - foundation drains;
 - air conditioning condensate (commercial/residential);
 - irrigation waters;
 - springs;
 - water from crawl space pumps;
 - footing drains;
 - lawn watering;
 - residential and charity car washing;
 - flows from riparian habitats and wetlands;
 - dechlorinated swimming pool discharges;
 - street wash water;
 - flows from emergency fire fighting;
 - releases of clean waters from hydrostatic testing; and
 - drainage of uncontaminated stormwater from secondary containment after visual monitoring.

PART 2: LIMITATIONS AND CONTROLS FOR PERMITTED DISCHARGES**SECTION A: STORMWATER MANAGEMENT PROGRAM IMPLEMENTATION**

The permittee shall implement, manage, and oversee all provisions of its Comprehensive Stormwater Management Program Plan to reduce pollutants discharged from the MS4. This includes, but is not limited to, the following provisions:

1. Stormwater Plan

- (a) The permittee shall develop, maintain, and implement a Stormwater Plan in accordance with Section 402(p)(3)(B) of the Clean Water Act, provisions outlined by the Director, and the provisions of this permit.
- (b) The Stormwater Plan shall include, at a minimum, specific and measurable goals that define program elements to fully implement each of the six minimum control measures (MCMs) defined in 40 CFR §122.34(b): public education and outreach on stormwater impacts, public involvement and participation, illicit discharge detection and elimination, construction site runoff control, post-construction stormwater management, and pollution prevention/good housekeeping for municipal operations, as well as any required Total Maximum Daily Load (TMDL) requirements.
- (c) The Stormwater Plan shall detail the permittee's Stormwater Management Program for the five-year term of the stormwater permit. Each MCM shall have: a narrative description of the program, a table that identifies each best management practice (BMP) used, the frequency of the BMP, the measurable goals for each BMP, the implementation schedule, funding, and the responsible person or position for implementation.
- (d) The Stormwater Plan shall identify specific position(s) and responsibilities for the implementation of each MCM and any TMDL requirements, as well as overall coordination and management of the Comprehensive Stormwater Management Program.
- (e) If discharges are determined to cause or contribute to non-attainment of an applicable water quality standard, the permittee shall expand or better tailor its BMPs within the scope of the six minimum control measures to address the discharges.
- (f) The purpose of the Stormwater Plan is to reduce the discharge of pollutants from the MS4 to the maximum extent practicable, to protect water quality, and to satisfy the applicable water quality requirements of the Clean Water Act. Implementation of best management practices consistent with the provisions of the Stormwater Plan constitutes compliance with the standard of reducing pollutants to the maximum extent practicable.
- (g) The Division may notify the permittee when the Stormwater Plan does not meet one or more of the requirements of the permit or the maximum extent practicable standard. Within ninety (90) days of such notice, the permittee shall submit a plan and time schedule to the Division for modifying the Stormwater Plan to meet the requirements. The Division may approve the plan, approve a plan with modifications, or reject the proposed plan. Nothing in this paragraph shall be construed to limit the Division's ability to conduct enforcement actions for violations of this permit. When changes to the program are required by the Division, the permittee shall provide certification in writing

to the Division that the changes have been made.

- (h) The permittee shall make its Stormwater Plan available to the Division upon request.

2. Legal Authority

The permittee shall develop and maintain the authority to implement and enforce all provisions of the Stormwater Plan.

3. Program Funding

The permittee shall maintain adequate funding and staffing to comply with this permit and implement and manage the Comprehensive Stormwater Management Program and all provisions of the Stormwater Plan.

SECTION B: PUBLIC EDUCATION AND OUTREACH PROGRAM

The Stormwater Plan shall identify the specific elements and implementation of a Public Education and Outreach Program designed to share educational materials, promote educational opportunities for the base-wide community, conduct outreach activities on the impacts of stormwater pollutants and discharges to water bodies, and inform base occupants on how they can reduce pollutants in stormwater runoff and properly dispose of waste. The program shall include a combination of approaches that are effective at reaching identified target audiences.

The permittee shall document the extent of exposure of each media, event, or activity, including those elements implemented locally or through a cooperative agreement and, at a minimum, shall:

1. Annually evaluate, identify, and define the target pollutants, potential sources, and associated target audiences likely to have significant stormwater impacts on base.
2. Provide educational information and/or outreach to identified target audiences on target pollutants and/or stormwater issues. At a minimum, the permittee shall:
 - (a) Identify and address three high priority community-wide issues.
 - (b) Address a minimum of three residential and three industrial/commercial issues.
 - (c) Provide educational information to base employees, operational forces, businesses and the public of hazards associated with illicit discharges, illegal dumping, and improper disposal of waste.
 - (d) Inform the community on watersheds in need of special protection, and the issues that may threaten the quality of these waters.
3. Provide and maintain a website designed to convey the stormwater program's purpose and scope. The website should include educational information and opportunities to improve stormwater discharges from the MS4.
4. Provide and maintain a stormwater hotline/helpline for public education and outreach.

SECTION C: PUBLIC INVOLVEMENT AND PARTICIPATION

The Stormwater Plan shall identify the specific elements and implementation of a Public Involvement and Participation Program designed to provide and promote volunteer opportunities for the base-wide community, and to provide opportunities for feedback on the Stormwater Plan.

The permittee shall document the extent of exposure of each media, event, or activity, including those elements implemented locally or through a cooperative agreement and, at a minimum, shall:

1. Conduct at least one public meeting during the term of the permit to allow the community an opportunity to review and comment on the Stormwater Plan.
2. Promote and provide a mechanism for group involvement and input on the stormwater program.
3. Promote and provide a minimum of one stormwater volunteer event or opportunity each year.
4. Provide and maintain a stormwater hotline/helpline for reporting stormwater issues and concerns on base.

SECTION D: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

The Stormwater Plan shall identify the specific elements and implementation of an Illicit Discharge Detection and Elimination (IDDE) Program in accordance with 40 CFR §122.34(b)(3). At a minimum, the IDDE Program shall:

1. Develop, update, and maintain a municipal storm sewer system map including stormwater conveyances, flow direction, major outfalls, and waters of the United States receiving stormwater discharges.
2. Develop and maintain a regulatory mechanism that provides legal authority to prohibit, detect, and eliminate illicit connections and discharges, illegal dumping, and spills into the MS4, including enforcement procedures and actions.
3. Maintain and implement a written IDDE Plan to detect and address illicit discharges, illegal dumping, spills and any non-stormwater discharges identified as significant contributors of pollutants to the MS4. The plan shall provide standard procedures and documentation to:
 - (a) Locate priority areas likely to have illicit discharges,
 - (b) Conduct routine dry weather inspections of all major outfalls or implement approved base-wide Stormwater Monitoring Plan in accordance with Section H.3 of this permit,
 - (c) Identify illicit discharges and trace sources,
 - (d) Eliminate the source(s) of an illicit discharge, and
 - (e) Evaluate and assess the IDDE Program.
4. Provide a mechanism for tracking and documenting each illicit discharge, illicit connection, or illegal dumping event including date(s) reported and/or observed, the results of the investigation,

any follow-up of the investigation, the date the investigation was closed, the issuance of enforcement actions, and the ability to identify chronic violators.

5. Train municipal staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge, illicit connection, illegal dumping, or spills. Training shall include how to identify and report illicit discharges, illicit connections, illegal dumping, and spills. Each staff training event shall be documented, including the agenda/materials, date, and number of staff participating. The training program shall identify appropriate personnel, the schedule for conducting the training and the proper procedures for reporting and responding to an illicit discharge or connection. Follow-up training must be provided as needed to address changes in personnel, procedures, or techniques.
6. Promote and provide a reporting mechanism for the public and staff to report illicit discharges, and establish and implement response procedures. The permittee shall conduct reactive inspections in response to reports/complaints and perform follow-up inspections as needed to ensure that corrective measures have been implemented by the responsible party to achieve and maintain compliance.
7. Implement, assess annually, and update as necessary written procedures to identify and report sanitary sewer overflows and sewer leaks to the system operator.

SECTION E: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

Compliance with the North Carolina Sediment Pollution Control Act of 1973 (SPCA) program as defined in 15A NCAC Chapter 04 shall meet requirements for public input, sanctions to ensure compliance, requirements for construction site operators to implement appropriate erosion and sediment control practices, review of site plans which incorporates consideration of potential water quality impacts, and procedures for site inspection and enforcement of control measures.

At a minimum, the permittee's Construction Site Runoff Control Program shall:

1. Require construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impact to water quality.
2. Provide and promote a means for the community to notify the appropriate authorities of observed erosion and sedimentation problems.

SECTION F: POST-CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

The Stormwater Plan shall identify the specific elements to develop, implement, and enforce a Post-Construction Site Runoff Control Program (PC Program) to address stormwater runoff from development projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the MS4. At a minimum, the Post-Construction Program shall comply with 15A NCAC 02H .1017 and .1019, and the permittee's PC Program shall include the following provisions:

1. The permittee shall notify the Division of the specific post-construction program it will implement.

Notification shall be received by the Division no later than December 31, 2021.

2. Establish local authority to review, approve, and enforce the PC Program no later than October 1, 2022.
3. Implement the full PC Program no later than October 1, 2023.
4. The permittee shall establish and maintain adequate legal authorities through ordinance or other regulatory mechanism(s) to:
 - (a) Review designs and proposals for development projects to determine whether adequate stormwater control measures will be installed, implemented, and maintained.
 - (b) Request information such as stormwater plans, inspection reports, monitoring results, and other information deemed necessary to evaluate compliance with the Post-Construction Program.
 - (c) Enter property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to stormwater discharges to determine compliance with the Post-Construction Program.
5. The permittee shall develop, maintain, and implement plan review and approval authority, standards, and procedures to:
 - (a) Conduct site plan reviews of all new development and redeveloped sites that disturb greater than or equal to one acre, and sites that disturb less than one acre that are part of a larger common plan of development or sale for compliance with 15A NCAC 02H .1017 and .1019.
 - (b) Ensure that each project has an Operation and Maintenance Agreement that complies with 15A NCAC 02H .1050(11).
 - (c) Ensure that each project has recorded deed restrictions and protective covenants, or their equivalent, that require the project to be maintained consistent with approved plans.
 - (d) Ensure that each SCM and associated maintenance accesses be protected in a permanent recorded easement or equivalent mechanism per 15A NCAC 02H 1050 (9) and (10).
6. The permittee shall maintain inspection and enforcement authority, standards, and procedures to:
 - (a) Conduct post-construction inspections prior to issuing a Certificate of Occupancy, Temporary Certificate of Occupancy or equivalent approval.
 - (b) Ensure that the project has been constructed in accordance with the approved plan(s).
 - (c) Ensure annual inspection of each permitted SCM to ensure compliance with the approved Operation and Maintenance Agreement.
 - (d) Require that inspections be conducted by a qualified professional.
7. The permittee shall maintain adequate documentation and standardized inspection and tracking mechanisms to:

- (a) Maintain an inventory of post-construction SCMs and permitted projects.
 - (b) Document, track, and maintain records of inspections and enforcement actions. Tracking shall include the ability to identify chronic violators.
 - (c) Make available to developers all relevant ordinances, post-construction requirements, design standards, checklists, and/or other materials.
8. Construction projects that are performed by or under contract for the permittee, including roads and bridges, must meet the requirements for stormwater management and water quality protection required by Session Law 2008-211, Sections 2.(a), 2.(b), 2.(c), 2.(d), 2.(e) and 2.(f). Roads and bridges must minimize built-upon surfaces, divert stormwater away from surface waters as much as possible and employ other best management practices to minimize water quality impacts to the maximum extent practicable.
 9. As an alternative to the requirements above, the permittee may develop and implement a Division-approved Comprehensive Watershed Protection Plan (CWPP) to meet all or part of the requirements for a PC Program. Any previous Division-approved CWPP(s) shall be updated and resubmitted to the Division for review, comment, and approval within twelve (12) months of permit issuance.

SECTION G: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS

The Stormwater Plan shall identify the specific elements for development and implementation of a comprehensive suite of operation and maintenance programs to prevent and minimize pollutants in runoff from base facilities and operations. At a minimum, pollution prevention and good housekeeping for municipal operations shall include the following programs.

At a minimum, the permittee shall develop, implement, document, and maintain the following pollution prevention and good housekeeping programs:

1. Facilities Operation and Maintenance Program to manage facilities that are owned and operated by the permittee and have the potential for generating polluted stormwater runoff. The permittee shall maintain a current inventory of municipal facilities and corresponding outfalls and receiving waters; perform facility inspections and routine maintenance; establish specific frequencies, schedules, and standard documentation; provide staff training on general stormwater awareness and implementing pollution prevention and good housekeeping practices.
2. Spill Response Program for facilities and operations that store and/or use materials that have the potential to contaminate stormwater runoff if spilled. The permittee shall maintain written spill response procedures and train staff annually on spill response procedures.
3. MS4 Operation and Maintenance Program to minimize pollutants in the stormwater collection system. The permittee shall provide operation and maintenance staff training on stormwater awareness and pollution prevention, perform MS4 inspections, maintain the collection system including catch basins and conveyances; and establish specific frequencies, schedules, and standard documentation.
4. Municipal SCM Operation and Maintenance Program to manage structural SCMs that are installed for compliance with the permittee's post-construction program. The permittee shall maintain a current inventory of SCMs, perform annual SCM inspections, perform routine maintenance in

accordance with the SCM O&M Plan, and shall establish specific frequencies, schedules, and documentation.

5. Pesticide, Herbicide, and Fertilizer Management Program for staff and contractors to minimize water quality impacts from the use of landscape chemicals. The permittee shall provide routine pollution prevention and chemical use, storage and handling training, and shall ensure compliance with permits and applicator certifications.
6. Vehicle and Equipment Maintenance Program to prevent and minimize contamination of stormwater runoff from areas used for municipal vehicle and equipment maintenance and/or cleaning. The permittee shall ensure that municipal industrial facilities subject to NPDES industrial permitting comply with those permit requirements, provide routine pollution prevention training to staff, perform routine inspections, and establish specific frequencies, schedules, and documentation.
7. Pavement Management Program to reduce pollutants in stormwater runoff from streets, roads, parking lots and runways within the permittee's jurisdictional limits. The permittee shall implement measures to control litter, leaves, debris, particulate matter and fluids associated with vehicles and aircraft, and shall establish specific frequencies, schedules, and documentation.

SECTION H: INDUSTRIAL ACTIVITIES

The permittee shall be deemed to have general permit coverage for industrial facilities subject to the Division's general permits for vehicle maintenance and air transportation (NCG080000 and NCG150000, respectively). Industrial facilities that are subject to individual stormwater permitting and any other general permit shall obtain and maintain an industrial stormwater permit from the Division.

To maintain deemed general permit coverage for an NCG080000 or NCG150000 facility, the permittee shall:

1. Maintain an inventory of subject vehicle maintenance and air transportation facilities.
2. Develop, maintain, and implement a Stormwater Pollution Prevention Plan (SWPPP) at each vehicle maintenance and air transportation facility. The SWPPP shall include all items that are listed in current general permit requirements in NCG080000 and NCG150000. Either a base-wide SWPPP or individual SWPPPs for each facility shall be acceptable to meet this permit requirement.
3. Within twelve (12) months of permit issuance, update and submit to the Division for review and approval a base-wide Monitoring Plan. The base-wide Monitoring Plan shall target analytical monitoring efforts at stormwater outfalls considered most likely to cause or contribute to water quality degradation based on either previously collected data or an analysis of activities within the drainage area, or both.
4. Include all analytical monitoring data in the annual report as well as any changes to the base-wide Monitoring Plan that will occur during the upcoming year.

SECTION I: OIL WATER SEPARATORS

All oil water separators (OWS) that discharge to either the MS4, directly into the waters of the state, or have engineered diversionary catchment basins, including in the event of a bypass, shall be fully described in a SWPPP which includes the following information for each OWS:

1. Location,
2. Drainage area,
3. Drainage area activities that could impact stormwater discharges,
4. Materials used/stored/handled in the drainage area that could impact stormwater discharges,
5. Name of water body ultimately receiving any discharge,
6. Design capacity of the device.

SECTION J: IMPAIRED WATERS and TOTAL MAXIMUM DAILY LOADS (TMDLs)

1. The permittee shall evaluate strategies and tailor and/or expand BMPs for impaired waters within the scope of the six minimum control measures to enhance water quality recovery strategies in the watershed(s) and describe the strategies and tailored and/or expanded BMPs in each annual report.
2. The permittee shall comply with the requirements of an approved TMDL stormwater Waste Load Allocation (WLA) for any watershed directly receiving discharges from the permitted MS4.
3. If no stormwater WLA exists for an approved TMDL, the permittee shall evaluate strategies and tailor and/or expand BMPs within the scope of the six MCMs to enhance water quality recovery strategies and reduce pollutants of concern in the watershed(s) to which the TMDL applies. The permittee shall describe the strategies and tailored and/or expanded BMPs in their Stormwater Management Plan and annual reports.
4. Upon the date of EPA's final approval of a TMDL, the following shall apply:
 - (a) Within 12 months, the permittee's annual reports shall include a description of, and a brief explanation as to how existing programs, controls, partnerships, projects, and strategies address impaired waters.
 - (b) Within 24 months, the permittee's annual reports shall include an assessment of whether additional structural and/or non-structural BMPs are necessary to address impaired waters.
 - (c) Within 36 months, the permittee's Stormwater Plan shall be updated to include appropriate BMPs to address impaired waters.

PART 3: ANNUAL PROGRAM ASSESSMENT

1. Implementation of the Stormwater Plan shall include documentation of all program components that are being undertaken including, but not limited to, inspections, maintenance activities, educational programs, implementation of BMPs, enforcement actions, and other stormwater activities. If monitoring and sampling are being performed, documentation of results shall be included.
2. The Stormwater Plan shall be reviewed and updated as necessary, but at least on an annual basis. The report shall include appropriate information to accurately describe the program progress, status, and results.

The annual program assessment shall include, but is not limited to, the following components:

- (a) A detailed description of the status of implementation of the Stormwater Plan. This will include information on development and implementation of all components of the Stormwater Plan for the past year and schedules and plans for the year following each report.
 - (b) Describe and justify any proposed changes to the Stormwater Plan. This will include descriptions and supporting information for the proposed changes and how these changes will impact the Stormwater Plan (results, effectiveness, implementation schedule, etc.).
 - (c) Document any necessary changes to programs or practices for assessment of management measures implemented through the Stormwater Plan. In addition, any changes in the cost of, or funding for, the Stormwater Plan will be documented.
 - (d) A summary of data accumulated as part of the Stormwater Plan throughout the year along with an assessment of what the data indicates.
 - (e) A summary of activities undertaken as part of the Stormwater Plan throughout the year. This summary will include, but is not limited to, information on the establishment of appropriate legal authorities, project assessments, inspections, enforcement actions, continued inventory and review of the storm sewer system, education, training, and results of the illicit discharge detection and elimination program.
3. The permittee shall submit an annual self-assessment of the previous federal fiscal year activities to the Division no later than December 31 of each year.
 4. The Division may notify the permittee when the Stormwater Plan does not meet one or more of the lawful requirements of the permit. Within thirty (30) calendar days of such notice, the permittee shall submit a plan and time schedule to the Director for modifying the Stormwater Plan to meet the requirements. The Division may approve the plan, approve a plan with modifications, or reject the proposed plan. The permittee shall provide certification in writing to the Division that the changes have been made. Nothing in this paragraph shall be construed to limit the Division's ability to conduct enforcement actions for violations of this permit.
 5. The Division may request additional reporting information as necessary to assess the progress and results of the permitted stormwater program.

PART 4: REPORTING AND RECORD KEEPING REQUIREMENTS

1. Electronic Submittals

Beginning on December 21, 2020, and in accordance with federal reporting requirements established in the final NPDES Electronic Reporting Rule adopted and effective December 21, 2015, the permittee shall electronically submit any required annual reports and monitoring data. All required electronic submittals shall be made in accordance with Division guidance.

2. Non-Electronic Submittals

All reports required herein, not submitted electronically, shall be submitted to the following address:

Department of Environmental Quality
Division of Energy, Mineral, and Land Resources - Stormwater Program
1612 Mail Service Center
Raleigh, North Carolina 27699-1612

3. Signatory Authority

All applications, reports, or information, other than those submitted electronically, shall be signed by a principal executive officer, ranking elected official, or duly authorized representative. A person is a duly authorized representative only if:

- (a) The authorization is made in writing by a principal executive officer or ranking elected official;
- (b) The authorization specified either an individual or a position having responsibility for the overall operation of a regulated facility or activity or an individual or position having overall responsibility for environmental/stormwater matters; and
- (c) The written authorization is submitted to the Division.

4. Signatory Certification

Any person signing a document under these permit requirements shall, at a minimum, make the following 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 fines and imprisonment for knowing violations."

5. Record Keeping Requirements

- (a) Documentation shall be kept on-file by the permittee for a period of five years from the date of expiration of this permit and made available to the Division or authorized representative upon request.
- (b) The permittee shall retain records of all monitoring information, including calibration and maintenance records and copies of reports required by this permit, for a period of at least five years from the date of expiration of this permit. This period may be extended by request of the Division.

6. Supplemental or Corrected Information

Where the permittee becomes aware that it failed to submit any relevant facts or submitted incorrect information in a permit application or in any report to the Division, it shall promptly submit such facts or information.

PART 5: COMPLIANCE AND LIABILITY

1. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of permit coverage upon renewal application.

- (a) The permittee shall comply with standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
- (b) The Clean Water Act provides that any person who violates a permit condition is subject to a civil penalty not to exceed the maximum amounts authorized by Section 309(d) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. §2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. §3701 note) (currently \$37,500 per day for each violation). Any person who negligently violates any permit condition is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment for not more than 1 year, or both. Any person who knowingly violates permit conditions is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than 3 years, or both. Also, any person who violates a permit condition may be assessed an administrative penalty not to exceed \$16,000 per violation with the maximum amount not to exceed \$177,500. [Ref: Section 309 of the Federal Act 33 USC 1319 and 40 CFR 122.41(a).]
- (c) Under state law, a daily civil penalty of not more than twenty-five thousand dollars (\$25,000) per violation may be assessed against any person who violates or fails to act in accordance with the terms, conditions, or requirements of a permit. [Ref: North Carolina General Statutes 143-215.6A]
- (d) Any person may be assessed an administrative penalty by the Administrator for violating sections 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Pursuant to 40 CFR Part 19 and the Act, administrative penalties for Class I violations are not to exceed the maximum amounts authorized by Section 309(g)(2)(A) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. §2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. §3701 note) (currently \$11,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$27,500). Pursuant to 40 CFR Part 19 and the Act, penalties for Class II violations are not to exceed the maximum amounts authorized by Section 309(g)(2)(B) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. §2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. §3701 note) (currently \$11,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$137,500).

2. Duty to Mitigate

The permittee shall take reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

3. Twenty-four Hour Noncompliance Reporting

The permittee shall report to the Division any noncompliance that may constitute an imminent threat to health or the environment. Any information shall be provided orally within 24 hours from the time the permittee became aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances.

The written submission shall contain a description of the noncompliance and its causes, the period of noncompliance, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

4. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from any responsibilities, liabilities, or penalties for noncompliance pursuant to NCGS 143-215.3, 143-215.6A, 143-215.6B, 143-215.6C or Section 309 of the Federal Act, 33 USC 1319. Furthermore, the permittee is responsible for consequential damages, such as fish kills, even though the responsibility for effective compliance may be temporarily suspended.

5. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under NCGS 143-215.75 et seq. or Section 311 of the Federal Act, 33 USC 1321.

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

7. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

8. Duty to Provide Information

The permittee shall furnish to the Division, within a reasonable time, any information which the Division may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the coverage issued pursuant to this permit or to determine compliance with this permit. The permittee shall also furnish to the Division upon request, copies of records required by this permit.

9. Penalties for Tampering

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

10. Penalties for Falsification of Reports

The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two years per violation, or by both.

11. Need to Halt or Reduce not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the condition of this permit.

12. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are owned and/or operated by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures as necessary. This provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

PART 6: INSPECTION, ENTRY, AND AVAILABILITY OF REPORTS**1. Inspection and Entry**

The permittee shall allow the Division, or an authorized representative (including an authorized contractor acting as a representative of the Division), or in the case of a facility which discharges through a municipal separate storm sewer system, an authorized representative of a municipal operator or the separate storm sewer system receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to;

- (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records shall be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records of the permittee that shall be kept under the conditions of this permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations of the permittee regulated or required under this permit; and
- (d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location under the control of the permittee.

2. Availability of Reports

Except for data determined to be confidential under NCGS 143-215.3(a)(2) or Section 308 of the Federal Act, 33 USC 1318, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Division of Energy, Mineral, and Land Resources. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NCGS 143-215.6B or in Section 309 of the Federal Act.

PART 7: DEFINITIONS

1. Act: See Clean Water Act.
2. Annual Self-Assessment (ASA): The standard document submitted by the permittee on an annual basis that summarizes the SWMP implementation and activities conducted during the previous fiscal year.
3. Best Management Practice (BMP): Measures or practices used to reduce the amount of pollution entering surface waters. BMPs can be structural or non-structural and may take the form of a process, activity, physical structure or planning (see non-structural BMP). See also SCM.
4. Clean Water Act (CWA or Act): The Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 USC 1251, et. seq.
5. Common Plan of Development: A construction or land disturbing activity is part of a larger common plan of development if it is completed in one or more of the following ways: in separate stages, in separate phases, or in combination with other construction activities. It is identified by the documentation (including but not limited to a sign, public notice or hearing, sales pitch, advertisement, loan application, drawing, plats, blueprints, marketing plans, contracts, permit application, zoning request, or computer design) or physical demarcation (including but not limited to boundary signs, lot stakes, or surveyor markings) indicating that construction activities may occur on a specific plot. It can include one operator or many operators.
6. Construction Activity: The disturbance of soils associated with clearing, grading, excavating, filling of land, or other similar activities which may result in soil erosion.
7. Department (DEQ): The North Carolina Department of Environmental Quality.
8. Division (DEMLR): The Division of Energy, Mineral, and Land Resources in the Department of Environmental Quality.
9. Illicit Discharge: Any discharge to a MS4 that is not composed entirely of stormwater except discharges pursuant to an NPDES permit (other than the NPDES MS4 permit), allowable non-stormwater discharges, and discharges resulting from fire-fighting activities.
10. Industrial Activity: For the purposes of this permit, industrial activities shall mean all industrial activities as defined in 40 CFR 122.26.
11. Major Municipal Separate Storm Sewer Outfall (or “Major Outfall”): Major municipal separate storm sewer outfall (or “major outfall”) means a municipal separate storm sewer outfall that discharges from a single pipe with an inside diameter of 36 inches or more or its equivalent (discharge from a single conveyance other than circular pipe that is associated with a drainage area of more than 50 acres); or for municipal separate storm sewers that receive storm water from lands zoned for industrial activity (based on comprehensive zoning plans or the equivalent), an outfall that discharges from a single pipe with an inside diameter of 12 inches or more or from its equivalent (discharge from other than a circular pipe associated with a drainage area of 2 acres or more).
12. Maximum Extent Practicable (MEP): MEP is defined in the *Federal Register* (U.S. EPA, 1999, p. 68754). This document says that “Compliance with the conditions of the general permit and the series of steps associated with identification and implementation of the minimum control measures will satisfy the MEP standard.” Minimum control measures are defined in the *Federal Register* as (1) public education and outreach, (2) public participation/involvement, (3) illicit discharge detection and elimination, (4) construction site runoff control, (5)

post-construction runoff control, and (6) pollution prevention/good housekeeping. MEP are the controls necessary for the reduction of pollutants discharged from a MS4, which consist of a combination of BMPs, control techniques, system design and such other provisions as described in the SWMP. Implementation of BMPs consistent with the provisions of the stormwater management program required pursuant to this permit constitutes compliance with the standard of reducing pollutants to the MEP. Stormwater management programs must be assessed and adjusted, as part of an iterative process, to maximize their efficiency and make reasonable progress toward as ultimate goal of reducing the discharge of pollutants to the MEP.

13. Municipal Separate Storm Sewer System (MS4): Pursuant to 40 CFR 122.26(b)(8) means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) owned or operated by the United States, a State, city, town, county, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under Section 208 of the Clean Water Act (CWA) that discharges to waters of the United States or waters of the State that is designed or used for collecting or conveying stormwater; that is not a combined sewer; and which is not part of a Publicly Owned Treatment Works (POTW) as defined in 40 CFR 122.2.
14. Non-structural BMP: Non-structural BMPs are preventive actions that involve management and source controls such as: (1) Policies and ordinances that provide requirements and standards to direct growth to identified areas, protect sensitive areas such as wetlands and riparian areas, maintain and/or increase open space, provide buffers along sensitive water bodies, minimize impervious surfaces, and/or minimize disturbance of soils and vegetation; (2) policies or ordinances that encourage infill development in higher density urban areas, and areas with existing storm sewer infrastructure; (3) education programs for developers and the public about minimizing water quality impacts; (4) other measures such as minimizing the percentage of impervious area after development, use of measures to minimize directly connected impervious areas, and source control measures often thought of as good housekeeping, preventive maintenance and spill prevention.
15. Outfall: Outfall means a point source as defined by 40 CFR 122.2 at the point where a municipal separate storm sewer discharges to waters of the United States and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream or other waters of the United States and are used to convey waters of the United States.
16. Permittee: The owner or operator issued this permit.
17. Point Source Discharge of Stormwater: Any discernible, confined and discrete conveyance including, but not specifically limited to, any pipe, ditch, channel, tunnel, conduit, well, or discrete fissure from which stormwater is or may be discharged to waters of the state.
18. Redevelopment: "Redevelopment" has the same meaning as in G.S. 143-214.7.
19. Storm Sewer System: Is a conveyance or system of conveyances which are designed or used to collect or convey stormwater runoff that is not part of a combined sewer system or treatment works. This can include, but is not limited to, streets, catch basins, pipes, curbs, gutters, ditches, man-made channels or storm drains that convey stormwater runoff.
20. Stormwater Associated with Industrial Activity: The discharge from any point source which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing or raw material storage areas at an industrial site. Facilities considered to be engaged in "industrial activities" include those activities defined in 40 CFR 122.26(b)(14). The term does not include discharges from facilities or activities excluded from the NPDES program.

21. Stormwater Control Measures (SCM): "Stormwater Control Measure" or "SCM," also known as a structural "Best Management Practice" or "BMP," means a permanent device that is designed, constructed, and maintained to remove pollutants from stormwater runoff by promoting settling or filtration; or to mimic the natural hydrologic cycle by promoting infiltration, evapo-transpiration, post-filtration discharge, reuse of stormwater, or a combination thereof.
22. Stormwater Management Program: The term Stormwater Management Program refers to the comprehensive stormwater management program that is required to be developed and implemented by MS4 permittees.
23. Stormwater Management Plan (SWMP): The Stormwater Management Plan is the written plan that is used to describe and define the various control measures and activities the permittee will undertake to implement the stormwater management program to meet the MEP standard.
24. Stormwater Runoff: The flow of water which results from precipitation and which occurs immediately following rainfall or as a result of snowmelt.
25. Total Maximum Daily Load (TMDL): A TMDL is a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources. A TMDL is a detailed water quality assessment that provides the scientific foundation for an implementation plan. The implementation plan outlines the steps necessary to reduce pollutant loads in a certain body of water to restore and maintain water quality standards in all seasons. The Clean Water Act, Section 303, establishes the water quality standards and TMDL programs.
26. Waste Load Allocation (WLA): A WLA is a TMDL pollutant reduction target allocating a specific load reduction to specific point source discharge(s) of the pollutant. Some stormwater point source discharges are assigned a WLA.

APPENDIX B

Outfalls with Regulated Industrial Activity

Appendix B Outfalls With Regulated Industrial Activity

MCIEAST-MCB CAMLEJ



Outfall No. (GIS ID)	Easting	Northing	Total Area (acres)	Receiving Stream	Industrial Activities	Monitoring Status
OAB-001	927069.11	12562984.91	7.30	Courthouse Bay	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. A47)	Visual
OAB-002	926808.53	12562591.75	4.85	Courthouse Bay	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. A47)	Visual
OAB-003	926396.83	12562270.39	0.95	Courthouse Bay	4225 General Warehousing and Storage (Bldg. A1)	Visual
OAB-006	926955.89	12562837.21	3.14	Courthouse Bay	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. A47)	Visual
OAB-007	925295.86	12563052.44	32.18	UT to Courthouse Bay	* 4225 General Warehousing and Storage (Bldg. A1) * 4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. A71, Bldg. A66)	Visual
OAS-001	910497.64	12603283.29	138.53	Southwest Creek	* 3732 Boat Building and Repairing (Bldg. AS2820) * 4581 Airports, Flying Fields, and Airport Terminal Services (Bldg. AS890)	Visual
OAS-002	910390.78	12605923.46	15.47	New River	4581 Airports, Flying Fields, and Airport Terminal Services (Bldg. AS840)	Visual
OAS-003	910434.69	12607058.78	18.92	New River	4581 Airports, Flying Fields, and Airport Terminal Services (Bldg. AS840, Bldg. AS842)	Visual
OAS-004	899756.29	12606781.84	23.27	Southwest Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. AS4158)	Visual
OAS-005	902704.69	12604604.28	280.16	UT to Southwest Creek	* 2499 Wood Products (Bldg. AS122) * 4225 General Warehousing and Storage (Bldg. AS186, Bldg. AS4085, Bldg. AS4081, Bldg. AS4110, Bldg. AS4171) * 4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. AS4146, Bldg. AS4135, Bldg. AS4188, Bldg. AS118) * 4581 Airports, Flying Fields, and Airport Terminal Services (Bldg. AS4109, Bldg. AS3900, Bldg. AS3905, Bldg. AS518, Bldg. AS4106, Bldg. AS4100, Bldg. AS4108) * 5171 Petroleum Bulk Stations and Terminals (Bldg. AS143)	Analytical
OAS-006	899863.94	12607667.28	12.95	Southwest Creek	4225 General Warehousing and Storage (Bldg. AS4192)	Visual
OAS-008	910107.34	12604882.58	9.59	Southwest Creek	4581 Airports, Flying Fields, and Airport Terminal Services (Bldg. AS890)	Visual
OAS-010	910102.18	12605562.86	16.63	Southwest Creek	4581 Airports, Flying Fields, and Airport Terminal Services (Bldg. AS890)	Visual
OAS-014	906697.86	12603334.10	85.62	UT to Southwest Creek	* 4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation Bldg. AS3534) * 5171 Petroleum Bulk Stations and Terminals (Bldg. AS3517) * Hazardous Material Treatment, Storage, or Disposal Facilities (Bldg. AS3525)	Visual
OAS-018	902988.89	12605178.63	251.56	UT to Southwest Creek	4581 Airports, Flying Fields, and Airport Terminal Services (Bldg. AS3905, Bldg. AS518, Bldg. AS4106, Bldg. AS4100, Bldg. AS4108, Bldg. AS515, Bldg. AS514, Bldg. AS488, Bldg. AS511, Bldg. AS480, Bldg. AS498, Bldg. AS516)	Analytical
OAS-021	908628.26	12609247.25	132.13	New River	4581 Airports, Flying Fields, and Airport Terminal Services (Bldg. AS516, Bldg. AS508, Bldg. AS427)	Visual
OAS-030	907203.55	12612164.90	85.19	Stick Creek	* 4225 General Warehousing and Storage (Bldg. AS541, Bldg. AS424) * 4581 Airports, Flying Fields, and Airport Terminal Services (Bldg. AS516, Bldg. AS265)	Visual

Appendix B Outfalls With Regulated Industrial Activity

MCIEAST-MCB CAMLEJ



Outfall No. (GIS ID)	Easting	Northing	Total Area (acres)	Receiving Stream	Industrial Activities	Monitoring Status
OAS-032	905969.63	12613549.34	81.37	Strawhorn Creek	* 2499 Wood Products (Bldg. AS122) * 4225 General Warehousing and Storage (Bldg. AS130) * 4231 Terminal and Joint Terminal Maintenance Facilities (Bldg. AS118)	Visual
OAS-037	909667.92	12602370.90	4.88	Southwest Creek	4493 Marinas (Bldg. AS2800)	Visual
OCB-001	929542.41	12559022.93	44.91	UT to New River	* 3732 Bboat Building and Repairing (Bldg. BB329) * 4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. BB51)	Visual
OCB-013	930981.66	12558985.73	10.36	UT to New River	* 3732 Boat Building and Repairing (Bldg. BB329) * 4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. BB51)	Visual
OCB-014	931982.12	12561076.21	5.67	Courthouse Bay	5171 Petroleum Bulk Stations and Terminals (CONT161)	Visual
OCB-016	931411.48	12559317.14	80.79	UT to New River	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. BB360)	Visual
OCJ-001	917573.15	12612862.20	10.24	Northeast Creek	* 4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. M90) * 5171 Petroleum Bulk Stations and Terminals (Bldg. SM192A)	Visual
OCJ-003	917073.97	12612414.01	73.78	Northeast Creek	4225 General Warehousing and Storage (Bldg. M287, New UPO PEB Warehouse)	Visual
OCJ-004	914454.40	12616909.82	67.49	UT to Wilson Bay	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. M107, Bldg. M151)	Visual
OFC-001	941702.54	12582297.52	20.76	UT to Cowhead Creek	Wastewater Treatment Works (Bldg. FC436)	Visual
OFC-002	938655.11	12580778.07	110.52	UT to Frenchs Creek	Wastewater Treatment Works (Bldg. FC436)	Visual
OFC-003	941451.02	12584311.33	61.78	UT to Cowhead Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. FC230, Bldg. FC251, Bldg. FC356, Bldg. FC241, Bldg. FC263, Bldg. FC255)	Analytical
OFC-004	946204.66	12583259.21	39.91	Cowhead Creek	5171 Petroleum Bulk Stations and Terminals (CONT160)	Visual
OFC-005	941565.45	12583750.05	21.96	UT to Cowhead Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. FC263, Bldg. FC255)	Visual
OFC-006	943854.87	12587531.11	47.40	Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. FC40, Bldg. FC286, Bldg. FC45)	Visual
OFC-008	942169.27	12586657.40	46.19	Cogdels Creek	* 2499 Wood Products (Bldg. ES101) * 4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. FC200, Bldg. FC280, Bldg. FC281, Bldg. FC286)	Visual
OFC-009	942201.29	12586640.04	26.00	Cogdels Creek	* 2499 Wood Products (Bldg. ES101) * 4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. FC143, Bldg. FC270, Bldg. FC211)	Visual
OFC-012	940584.84	12587222.05	34.09	Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. FC100, Bldg. FC120)	Visual

Appendix B Outfalls With Regulated Industrial Activity

MCIEAST-MCB CAMLEJ



Outfall No. (GIS ID)	Easting	Northing	Total Area (acres)	Receiving Stream	Industrial Activities	Monitoring Status
OFC-013	943804.99	12587506.17	7.56	Cogdels Creek	4225 General Warehousing and Storage (Bldg. 989)	Visual
OFC-026	938931.76	12584997.93	25.52	UT to Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. FC375)	Visual
OFC-027	942518.35	12587949.56	10.21	Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. FC57)	Visual
OHP-001	937717.84	12586252.38	29.76	Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 1880, Bldg. 575)	Visual
OHP-002	938791.61	12587695.60	3.54	UT to Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 1854)	Visual
OHP-003	938813.62	12587389.45	3.34	UT to Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 1854)	Visual
OHP-004	937921.41	12587909.57	63.64	UT to Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 1880, Bldg. 1854, Bldg. 1829, Bldg. 1710)	Analytical
OHP-005	938468.01	12587899.84	1.26	UT to Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 1780)	Visual
OHP-006	938950.70	12588698.68	147.96	UT to Cogdels Creek	* 3499 Fabricated Metal Products (Bldg. 1202) * 4173 Terminal and Service Facilities for Motor Vehicle Passenger Transportation (Bldg. 1408) * 4225 General Warehousing and Storage (Bldg. 1501, Bldg. 1601, Bldg. 1403, Bldg. 1301, Bldg. 1402)) * 4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 1829, Bldg. 1710, Bldg. 1775, Bldg. 1405, Bldg. 1522, Bldg. 1406, Bldg. 1502, Bldg. 1311, Bldg. 1506, Bldg. 1445, Bldg. 1450, Bldg. 1470, Bldg. 1205/1206)	Visual
OHP-007	937253.72	12594264.46	52.89	Beaverdam Creek	* 3499 Fabricated Metal Products (Bldg. 1202) * 4225 General Warehousing and Storage (Bldg. 1101)	Visual
OHP-008	940433.08	12590066.86	117.65	UT to Cogdels Creek	* 2499 Wood Products (Bldg. HP1016) * 4225 General Warehousing and Storage (Bldg. 915, Bldg. 916, Bldg. 906, Bldg. 907, Bldg. 1116, Bldg. 1211, Bldg. 1317, Bldg. 905, Bldg. 1212, Bldg. 1011, Bldg. 1012, Bldg. 1316, Bldg. 1117, Bldg. 1015, Bldg. HP1017) * 4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 1205/1206, Bldg. 1323) * Hazardous Material Treatment, Storage, or Disposal Facilities (Bldg. 1038) * Recycling and Scraps/Salvage (Bldg. 1023)	Analytical
OHP-010	937297.66	12592523.77	36.96	UT to Beaverdam Creek	4225 General Warehousing and Storage (Bldg. 1301, Bldg. 1402, Bldg. 1101, Bldg. 1201, Bldg. 1108)	Visual
OHP-011	941837.80	12591715.09	16.38	UT to Cogdels Creek	4225 General Warehousing and Storage (Bldg. 914)	Visual
OHP-012	940143.00	12596521.65	79.68	Bearhead Creek	* Hazardous Material Treatment, Storage, or Disposal Facilities (Bldg. 977) * 4225 General Warehousing and Storage (Bldg. 902, Bldg. 901) * 5171 Petroleum Bulk Stations and Terminals (Bldg. 1070)	Visual
OHP-013	942488.11	12594832.54	103.37	Bearhead Creek	4225 General Warehousing and Storage (Bldg. 901, Bldg. 903, Bldg. 904)	Visual

Appendix B Outfalls With Regulated Industrial Activity

MCIEAST-MCB CAMLEJ



Outfall No. (GIS ID)	Easting	Northing	Total Area (acres)	Receiving Stream	Industrial Activities	Monitoring Status
OHP-014	937231.34	12585936.06	26.11	Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 575)	Visual
OHP-015	933917.41	12586446.27	191.37	New River	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 1747)	Visual
OHP-017	938572.03	12586446.62	7.91	Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 1854, Bldg. 1841)	Visual
OHP-018	931552.36	12588776.60	141.83	New River	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. HP232, Bldg. HP237)	Visual
OHP-019	931430.40	12590892.11	85.86	New River	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. HP250)	Visual
OHP-021	930642.73	12594291.92	99.25	Wallace Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. HP104, Bldg. HP100)	Visual
OHP-022	939976.51	12596515.71	97.44	Bearhead Creek	Recycling and Scraps/Salvage (Bldg. 1081)	Visual
OHP-024	936076.82	12592414.55	63.65	UT to Beaverdam Creek	4225 General Warehousing and Storage (Bldg. 1402, Bldg. 1501)	Visual
OHP-027	931687.16	12595914.12	27.49	Wallace Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 25)	Visual
OHP-035	936501.93	12585267.20	36.64	Cogdels Creek	5171 Petroluem Bulk Stations and Terminals (CONT162)	Visual
OHP-038	938030.86	12586574.46	3.36	Cogdels Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. 1841)	Visual
OHP-042	940907.49	12588536.85	18.83	Cogdels Creek	4225 General Warehousing and Storage (Bldg. 1462, Bldg. 1461, Bldg. 1463, Bldg. 1464, Bldg. 1465)	Visual
OHP-043	941670.37	12589626.55	6.42	Cogdels Creek	3732 Boat Building and Repairing (Bldg. 1047)	Visual
OHP-044	940773.61	12590018.43	5.33	UT to Cogdels Creek	3732 Boat Building and Repairing (Bldg. 1047)	Visual
OHP-045	940733.88	12596399.02	15.11	Bearhead Creek	Recycling and Scraps/Salvage (Bldg. 1002)	Visual
OLF-001	941209.83	12596318.17	82.10	Bearhead Creek	* Recycling and Scraps/Salvage (Bldg. 978) * Landfills, Land Application Sites, and Open Dumps (Bldg. 982)	Visual
OLF-002	943338.37	12596412.68	312.43	UT to Wallace Creek	Landfills, Land Application Sites, and Open Dumps (Bldg. 982)	Visual
ONH-001	932728.31	12612237.42	417.36	Northeast Creek	4173 Terminal and Service Facilites for Motor Vehicle Passenger Transportation (Bldg. NH118)	Visual
ONH-002	931657.28	12611988.93	17.01	Northeast Creek	5171 Petroluem Bulk Stations and Terminals (Bldg. NH100)	Visual
OOH-008	930046.98	12594362.34	19.30	Wallace Creek	4493 Marinas (Bldg. 198)	Visual
ORR-001	902411.92	12563843.27	8.18	Stones Creek	2499 Wood Products (Bldg. RR13)	Visual
ORR-003	906047.80	12564041.86	14.15	UT to Stones Bay	2499 Wood Products (Bldg. RR149)	Visual
ORR-012	903593.50	12559368.93	65.59	UT to Stones Bay	* 2499 Wood Products (Bldg. RR480) * 4225 General Warehousing and Storage (Bldg. RR465) * 4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. RR430, Bldg. RR425)	Visual
ORR-013	902149.14	12563013.76	15.22	Stones Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. RR121)	Visual
ORR-014	902310.86	12564415.25	2.68	UT to Stones Creek	2499 Wood Products (Bldg. RR13)	Visual

Appendix B
Outfalls With Regulated Industrial Activity

MCIEAST-MCB CAMLEJ



Outfall No. (GIS ID)	Easting	Northing	Total Area (acres)	Receiving Stream	Industrial Activities	Monitoring Status
OSR-001	890928.34	12570961.08	8.16	Swamp Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. SR72)	Visual
OTC-002	903178.56	12618107.02	6.65	UT to Brinson Creek	4225 General Warehousing and Storage (Bldg. G485)	Visual
OTC-002B	902016.70	12618074.82	37.80	UT to Brinson Creek	4225 General Warehousing and Storage (Bldg. G484)	Visual
OTC-003	904874.58	12617345.34	39.59	Brinson Creek	* 4225 General Warehousing and Storage (Bldg. TC562) * 5171 Petroleum Bulk Stations and Terminals (Bldg. TC366)	Analytical
OTC-004	906934.60	12616007.20	63.79	New River	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. G773)	Visual
OTC-005	903861.45	12614540.27	391.33	Edwards Creek	4225 General Warehousing and Storage (Bldg. G865)	Visual
OWC-001	934675.22	12595082.00	42.00	Beaverdam Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. WC200)	Analytical
OWC-002	934125.05	12595106.23	12.93	Beaverdam Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. WC200)	Visual
OWC-003	935731.36	12597147.19	6.82	Wallace Creek	4225 General Warehousing and Storage (Bldg. WC177, Bldg. WC178)	Visual
OWC-004	937033.97	12600068.75	14.81	Wallace Creek	4231 Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation (Bldg. WC501)	Visual
OWC-005	938154.88	12599555.82	18.90	Wallace Creek	4225 General Warehousing and Storage (Bldg. WC512)	Visual
OWF-001	940166.48	12601779.74	224.67	Wallace Creek	Hazardous Material Treatment, Storage, or Disposal Facilities (Bldg. 490)	Visual

APPENDIX C

Facilities Engaging in Regulated Industrial Activities

**Table C-1 Industrial Activities Field Guide**

SIC Code	Industrial Sector	Description of Industrial Activity
2441	Wood Containers - Nail and Lock Corner Wood Boxes	Establishments primarily engaged in manufacturing nailed and lock corner wood boxes (lumber or plywood), and shook for nailed and lock corner boxes.
2499	Wood Products	Establishments primarily engaged in manufacturing miscellaneous wood products, not elsewhere classified, including wood targets.
3499	Fabricated Metal Products	Establishments primarily engaged in manufacturing (machining and welding) fabricated metal products, not elsewhere classified.
3732	Boat Building and Repairing	Establishments primarily engaged in building and repairing boats including boat motor repair, hull repair, and associated appurtenance repair.
4173	Terminal and Service Facilities for Motor Vehicle Passenger Transportation	Establishments primarily engaged in the operation of motor vehicle passenger terminals and of maintenance and service facilities including facilities where vehicles used for passenger transportation at Camp Lejeune are maintained and/or washed. Combat vehicles fall under SIC Code 4231 - Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation.
4225	General Warehousing and Storage	Establishments primarily engaged in the warehousing and storage of a general line of goods for distribution to multiple units or other storage facilities. Field warehousing (i.e., goods for a single unit) is not considered an industrial activity.
4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Establishments primarily engaged in the operation of terminal facilities used by highway-type property carrying vehicles. Also included are terminals that provide maintenance and service for motor vehicles, including Motor T facilities.
4493	Marinas	Establishments primarily engaged in operating marinas. These establishments rent boat slips and store boats, and generally perform a range of other services including cleaning and incidental boat repair. They frequently sell food, fuel, and fishing supplies, and may sell boats.
4581	Airports, Flying Fields, and Airport Terminal Services	Establishments primarily engaged in operating and maintaining airports and flying fields; in servicing, repairing, maintaining, and storing aircraft; and in furnishing coordinated handling services for airfreight or passengers.
5171	Petroleum Bulk Stations and Terminals	Establishments primarily engaged in the distribution of crude petroleum and/or petroleum products, including liquefied petroleum gas, from bulk liquid storage facilities.
N/A	Hazardous Material Treatment, Storage, or Disposal Facilities	Establishments primarily engaged in the treatment, storage, or disposal of hazardous material including satellite accumulation areas, <90-day accumulations areas, and TSDFs.
N/A	Landfills, Land Application Sites, and Open Dumps	Establishments primarily engaged in receiving industrial waste, that is, waste generated at any of the facilities described by 40 CFR 122.26(b)(14).
N/A	Scrap and Waste Materials	Establishments primarily engaged in assembling, breaking up, sorting, and wholesale distribution of scrap and waste materials. This industry includes auto wreckers engaged in dismantling automobiles for scrap.
N/A	Wastewater Treatment Works	Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that is located within the confines of the facility, with a design flow of 1.0 MGD or more, or required to have an approved pretreatment program under 40 CFR 403.



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
1002	OHP-045	N/A	Recycling and Scraps/Salvage	Large outdoor scrap recycling yard that includes segregated stockpiles of wood, scrap metal, and compost (trees, roots, etc.). No outdoor storage of POL/HM/HW. Facility was in good overall condition.	Low
1011	OHP-008	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low
1012	OHP-008	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low
1015	OHP-008	4225	General Warehousing and Storage	Small warehouse facility with no outdoor storage of POL/HM/HW. Facility was in good overall condition with no observed deficiencies.	Low
1023	OHP-008	N/A	Recycling and Scraps/Salvage	High voltage shop with storage of work vehicles and mobile generators and lights (stored empty). Outdoor HM storage area includes multiple HM lockers with integral sumps. AH noted two deficiencies: (1) improper storage of one 55-gal drum; & (2) POL stains	Medium
1038	OHP-008	N/A	Hazardous Material Treatment, Storage, or Disposal Facilities	Storage/warehousing and transfer of HM that is used base-wide. No HM storage outdoors. Facility was well-kept and in good overall condition.	Low
1047	OHP-043 & OHP-044	3732	Boat Building and Repairing	Small boat maintenance facility. Facility is new and in good condition. All boats and HM are stored under permanent cover, which greatly limits exposure to stormwater.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
1070	OHP-012	5171	Petroleum Bulk Stations and Terminals	Bulk fuel storage and dispensing facility. Good housekeeping practices implemented throughout facility. Multiple spill kits located onsite. Aside from large AST's, facility limits outdoor HM storage to the maximum extent possible. No signs of POL leaks.	Low
1081	OHP-022	N/A	Recycling and Scraps/Salvage	DLADS outdoor storage facility was in good overall condition. There are two large, fenced outdoor storage areas. The smaller area to the north was full of miscellaneous metal products and equipment/vehicles. The fenced area to the south was vacant.	Low
1101	OHP-007 & OHP-010	4225	General Warehousing and Storage	Warehouse facility is in good overall condition. All material is either stored indoors or in a manner to limit exposure to stormwater. One unlabeled, single-walled AST in poor condition located at east side of warehouse.	Low
1108	OHP-010	4225	General Warehousing and Storage	Facility is currently inactive and undergoing renovations. No outdoor material storage present.	Low
1116	OHP-008	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low
1117	OHP-008	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low
1201	OHP-010	4225	General Warehousing and Storage	Warehouse facility is in good overall condition. All material is either stored indoors or in a manner to limit exposure to stormwater.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
1202	OHP-006 & OHP-007	3499	Fabricated Metal Products	Large quantities of outdoor metal products stored outside and uncovered. Suggest storing metal products covered as much as possible. One 55-gal drum labeled as used antifreeze stored outside with no secondary containment.	Medium
1205/1206	OHP-006 & OHP-008	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good overall condition. One small wash rack present. A small amount of combat vehicles stored outdoors with no signs of POL drips/leaks.	Low
1211	OHP-008	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low
1212	OHP-008	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low
1301	OHP-006 & OHP-010	4225	General Warehousing and Storage	Warehouse facility is in good overall condition. All material is either stored indoors or in a manner to limit exposure to stormwater.	Low
1311	OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Large equipment stored under permanent cover. Small outdoor storage area was in good overall condition. All HM was stored inside dedicated HM lockers with integral secondary containment. No deficiencies were observed.	Low
1316	OHP-008	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low
1317	OHP-008	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
1323	OHP-008	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in very good condition. One HM storage area located outdoors, with minimal exposure to stormwater. The outdoor storage area was in good condition with good housekeeping practices implemented throughout. Maintenance activities conducted indoors.	Low
1402	OHP-006, OHP-010, & OHP-024	4225	General Warehousing and Storage	Warehouse facility is in good overall condition. All material is either stored indoors or in a manner to limit exposure to stormwater.	Low
1403	OHP-006	4225	General Warehousing and Storage	General warehousing facility. All HM is stored indoors with no assets stored outdoors that could contribute to stormwater pollution.	Low
1405	OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Maintenance activities are conducted indoors. AH noted a large POL leak at one vehicle. No drip pans were in use at facility.	Low
1406	OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	All maintenance activities conducted indoors. Additionally, all HM/HW also stored indoors. Drip pans installed under all vehicles stored at facility.	Low
1408	OHP-006	4173	Terminal and Service Facilities for Motor Vehicle Passenger Transportation	Maintenance facility for buses, box trucks, and other Government vehicles. Facility in good overall condition; however, sediment accumulation deficiency was observed at the wash rack OWS system. HM stored within a covered/enclosed area with spill pallets.	Medium
1445	OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good overall condition. Very little HM stored outdoors (inside HM lockers). All maintenance activities are conducted indoors.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
1450	OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	All maintenance activities are conducted indoors, and the outdoor vehicle storage area was in good overall condition; however, major deficiencies were observed at the outdoor HM storage area (improper storage/containment practices & poor housekeeping).	High
1461	OHP-042	4225	General Warehousing and Storage	Warehouse facility with no outdoor storage of any kind. Facility in good overall condition.	Low
1462	OHP-042	4225	General Warehousing and Storage	Warehouse facility with no outdoor storage of any kind. Facility in good overall condition.	Low
1463	OHP-042	4225	General Warehousing and Storage	Warehouse facility with a small outdoor material storage area. Outdoor storage is all within sealed Conex boxes.	Low
1464	OHP-042	4225	General Warehousing and Storage	Warehouse facility with a small outdoor material storage area. Outdoor storage is all within sealed Conex boxes.	Low
1465	OHP-042	4225	General Warehousing and Storage	Warehouse facility with a small outdoor material storage area. A small quantity of POL cannisters were stored outdoors with no secondary containment.	Low
1470	OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility is currently vacant with no tenant. Facility previously served as a Motor T facility and also a warehouse facility; therefore, it will remain in the SWPPP as a potential industrial facility in the future. No current outdoor storage of POL/HM/HW.	Low
1501	OHP-006 & OHP-024	4225	General Warehousing and Storage	All warehousing activities are conducted indoors. One (1) small outdoor material storage area present. Facility in good overall condition.	Low

APPENDIX C

MCB Camp Lejeune



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
1502	OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	All maintenance activities conducted indoors. Aside from one (1) AST, all HM/HW stored indoors. Facility in good overall condition.	Low
1506	OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good overall condition with limited quantity of exposed material.	Low
1522	OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	All maintenance activities are conducted indoors. AH noted an overturned 55-gal POL drum on top of wash rack catch basin, POL stains at the same catch basin, and additional drums with no secondary containment. This is misuse of a wash rack OWS system.	Medium
1601	OHP-006	4225	General Warehousing and Storage	All warehousing activities are conducted indoors. No outdoor material storage. Facility in good overall condition.	Low
1710	OHP-004 & OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Maintenance activities are conducted indoors. A small amount of HM/HW stored outdoors in covered area. Some small POL drips noted, and very few drip pans observed.	Low
1747	OHP-015	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Small vehicle maintenance facility in good overall condition. No observed deficiencies.	Low
1775	OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility conducts all maintenance indoors. All HM/HW is stored indoors. AH noted two deficiencies: (1) the OWS stormwater bypass was filled with sediment. Flow cannot enter the OWS and is all bypassing to stormwater; (2) some small vehicle POL leaks.	Medium
1780	OHP-005	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Small maintenance facility where all maintenance activities are conducted indoors. Covered/bermed HM area outside building was in good condition, as was the outdoor vehicle storage area.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
1829	OHP-004 & OHP-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	AH noted two deficiencies: (1) several small POL leaks with no (or improperly placed) drip pans; (2) the stormwater bypass structure was allowing a small amount of water over the overflow berm (light flow). AH noted notable overspray exiting wash rack.	Medium
1841	OHP-017 & OHP-038	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Building tenant appears to be deployed. Very few vehicles stored in large outdoor storage lot. All maintenance activities are conducted indoors.	Low
1854	OHP-002, OHP-003, OHP-004, OHP-017	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Tank battalion no longer in service. Facility currently has no tenant and is inactive. No HM/HW currently stored at facility.	Low
1860	OHP-001	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in very good condition with good housekeeping practices implemented throughout. All maintenance activities are conducted indoors.	Low
1880	OHP-001 & OHP-004	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Two deficiencies observed: (1) the outdoor vehicle storage area contained many large POL drips/stains; and (2) the OWS effluent pumps were inoperable, causing all wastewater to bypass the OWS to the storm system.	Medium
198	OOH-008	4493	Marinas	Gottschalk Marina facility was in good overall condition. Facility includes a limited quantity of outdoor fueled boat storage and a gasoline fuel dispensing location located on the water. No other HM/HW stored outdoors.	Low
25	OHP-027	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Small government vehicle maintenance facility. All maintenance activities are conducted indoors. A very small quantity of HM is stored outdoors under a permanent cover. No issues observed.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
490	OWF-001	N/A	Hazardous Material Treatment, Storage, or Disposal Facilities	Pesticide storage facility. No outdoor storage of POL/HM/HW. Facility was in good condition.	Low
575	OHP-001 & OHP-014	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	All maintenance activities are conducted indoors. AH noted two deficiencies: (1) the vehicle with substantial burn damage should be removed/disposed of; (2) many fresh POL stains observed - recommend increased use of drip pans & prompt repair of leaks	Medium
901	OHP-012 & OHP-013	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition. The outdoor vehicle/equipment storage area was in good condition with no signs of recent POL leaks/stains.	Low
902	OHP-012	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater. Small, inactive wash rack located at north side of facility.	Low
903	OHP-013	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low
904	OHP-013	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low
905	OHP-008	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
906	OHP-008	4225	General Warehousing and Storage	All warehousing and HM/HW storage is contained indoors. One (1) outdoor material storage area is located on the south side of the building (vehicles, storage bins, and misc. metal).	Low
907	OHP-008	4225	General Warehousing and Storage	General warehousing facility, where all HM/HW is stored indoors. Facility in good overall condition, with limited quantities of outdoor material that could be exposed to stormwater.	Low
914	OHP-011	4225	General Warehousing and Storage	All warehousing activities are conducted indoors. All HM/HW is also stored indoors. There are two small outdoor material storage areas that include Conex boxes.	Low
915	OHP-008	4225	General Warehousing and Storage	All warehousing and HM/HW storage is contained indoors. One (1) outdoor material storage area is located on the south side of the building (mostly Conex boxes and misc. metal).	Low
916	OHP-008	4225	General Warehousing and Storage	All warehousing and HM/HW storage is contained indoors. Outdoor material storage areas are located on the north and south sides of the building (mostly Conex boxes and misc. metal).	Low
977	OHP-012	N/A	Hazardous Material Treatment, Storage, or Disposal Facilities	Central HM/HW receiving facility managed by EMD. Facility was in good overall condition with good housekeeping practices and proper management of outdoor HM storage areas.	Low
978	OLF-001	N/A	Recycling and Scraps/Salvage	Cardboard & paper recycling facility located at the Subtitle-D landfill facility. Facility was in good overall condition with no observed deficiencies.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
982	OLF-001 & OLF-002	N/A	Landfills, Land Application Sites, and Open Dumps	Subtitle-D landfill facility with outdoor material storage areas for landfill trucks, empty dumpsters (for use base-wide), and stockpiled soil/gravel. Facility was in good overall condition with no observed deficiencies.	Low
989	OFC-013	4225	General Warehousing and Storage	Warehousing for Class A medical supplies. All HM/HW stored indoors.	Low
A1	OAB-003 & OAB-007	4225	General Warehousing and Storage	Aside from one (1) AST, no other outdoor HM/HW or vehicle/equipment storage at this facility. All warehousing activities are confined indoors.	Low
A47	OAB-001, OAB-002, OAB-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good overall condition. Much improved housekeeping versus previous SWPPP inspections. All maintenance is conducted indoors. Minimal POL stains/leaks observed on pavement.	Low
A66	OAB-007	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	MARSOC Motor T facility. All maintenance activities are conducted indoors. Outdoor material storage area was in good overall condition, with good housekeeping practices being implemented throughout facility.	Low
A71	OAB-007	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	All maintenance activities are conducted indoors. AH noted several large POL stains throughout outdoor vehicle/equipment storage area. Very few drip pans were in use.	Medium
AS118	OAS-005 & OAS-032	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility was in good overall condition; however, facility personnel require training regarding usage of the OWS and the containment area that discharges to stormwater via a PIV.	Medium
AS122	OAS-005 & OAS-032	2499	Wood Products	Base maintenance facility (EMI) that conducts vehicle maintenance, storage for grading/utility repair equipment, and wood/electrical repair. Facility was in good overall condition.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
AS130	OAS-032	4225	General Warehousing and Storage	Small warehousing facility (Station Supply). No outdoor storage of HM/HW/POL. Facility in good overall condition.	Low
AS143	OAS-005	5171	Petroleum Bulk Stations and Terminals	MCAS fuel farm facility. HM/POLs managed in accordance with the SWPPP with minimized exposure and multiple spill kits located throughout the facility. Good housekeeping practices being implemented throughout the facility.	Low
AS186	OAS-005	4225	General Warehousing and Storage	Small warehousing facility (individual issue). No outdoor storage of HM/HW/POL. Facility in good overall condition.	Low
AS265	OAS-030	4581	Airports, Flying Fields, and Airport Terminal Services	Small V-22 maintenance hangar located off the flight line. No outdoor storage of POL/HM/HW. Facility was in good overall condition.	Low
AS2800	OAS-037	4493	Marinas	MCAS NR marina at Southwest Creek. Facility was undergoing dock renovations and was temporarily closed. Facility was in good overall condition, with limited outdoor HM/HW/POL exposure.	Low
AS2820	OAS-001	3732	Boat Building and Repairing	Small boat maintenance facility associated with the marina. All boats stored at this facility are located under permanent cover. Facility was in good overall condition.	Low
AS3517	OAS-014	5171	Petroleum Bulk Stations and Terminals	Bulk POL storage & transfer facility. In general, this facility was well kept and in good condition; however, the OWS contained a significant oil accumulation and requires cleaning. This OWS includes a stormwater bypass and therefore should be kept clean.	Medium



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
AS3525	OAS-014	N/A	Hazardous Material Treatment, Storage, or Disposal Facilities	MCAS Environmental Affairs facility for storage of various HM/HW/POLs. Facility was in good condition with good housekeeping practices implemented throughout. Outdoor HM/HW storage is confined to HM/HW lockers with integral sumps, & double-walled ASTs.	Low
AS3534	OAS-014	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Small maintenance facility where maintenance activities are conducted indoors. Facility was in good overall condition with no observed deficiencies.	Low
AS3900	OAS-005	4581	Airports, Flying Fields, and Airport Terminal Services	Aircraft maintenance hangar that is undergoing renovation. There is currently no outdoor storage of POL/HM/HW.	Low
AS3905	OAS-005 & OAS-018	4581	Airports, Flying Fields, and Airport Terminal Services	Aircraft maintenance facility. A large amount of POL stains/leaks were noted in the outdoor material storage area. Better housekeeping recommended, with use of drip pans and prompt repair of leaking vehicles/equipment. Multiple OWS deficiencies observed.	Medium
AS4081	OAS-005	4225	General Warehousing and Storage	Small warehouse facility with no outdoor storage of POL/HM/HW. Facility was in good condition with no observed deficiencies.	Low
AS4085	OAS-005	4225	General Warehousing and Storage	General warehousing facility with a large outdoor storage area for misc. wood and metal products. Facility was in good overall condition.	Low
AS4100	OAS-005 & OAS-018	4581	Airports, Flying Fields, and Airport Terminal Services	Aircraft maintenance facility where all maintenance activities are conducted indoors. Many small POL stains/leaks were observed in the outdoor storage area on the north side of the facility. Use of drip pans & prompt repair of leaks is recommended.	Medium
AS4106	OAS-005 & OAS-018	4581	Airports, Flying Fields, and Airport Terminal Services	Aircraft maintenance facility where all maintenance activities are conducted indoors. Facility was very well-kept with no deficiencies identified.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
AS4108	OAS-005 & OAS-018	4581	Airports, Flying Fields, and Airport Terminal Services	Aircraft maintenance facility where all maintenance activities are conducted indoors. Facility was very well-kept with no deficiencies identified.	Low
AS4109	OAS-005	4581	Airports, Flying Fields, and Airport Terminal Services	Aircraft hangar facility was in good overall condition with no noted deficiencies attributed to the tenant; however, the OWS bypass valve appears to be inoperable (sending wash water to the storm system).	Medium
AS4110	OAS-005	4225	General Warehousing and Storage	Small warehouse facility with no outdoor storage of POL/HM/HW. Facility was in good condition with no observed deficiencies.	Low
AS4135	OAS-005	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Motor T facility that is currently undergoing renovations. No tenant currently occupying building. Only construction equipment/materials onsite during the inspection. No deficiencies were observed.	Low
AS4146	OAS-005	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Small GSE maintenance facility. Overall, the facility was in very good condition with good housekeeping implemented throughout. AH did note that the diesel fuel dispensing area had some leaked diesel fuel. Better practices are required at this area.	Medium
AS4158	OAS-004	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Large Motor T facility with all maintenance activities conducted indoors. AH noted two deficiencies: (1) one 55-gal drum of cleaning solution was stored outside HM locker with no secondary containment; & (2) wash rack OWS contained significant sediment.	Medium
AS4171	OAS-005	4225	General Warehousing and Storage	Facility is currently undergoing renovation and is inactive. No SWPPP inspection performed.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
AS4188	OAS-005	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Small equipment trailer maintenance facility. The outdoor wash rack is reportedly rarely used. No outdoor storage of POL/HM/HW. Facility was in good overall condition.	Low
AS4192	OAS-006	4225	General Warehousing and Storage	Warehouse facility, with limited outdoor material storage (sealed Conex boxes and HM/flammables lockers). Facility was in good overall condition with no observed deficiencies.	Low
AS424	OAS-030	4225	General Warehousing and Storage	Warehousing facility with only one flammables locker stored outdoors (no other outdoor storage of POL/HM/HW). Facility was in good overall condition.	Low
AS427	OAS-021	4581	Airports, Flying Fields, and Airport Terminal Services	Air traffic control center and tower. Facility was well-kept with no observed deficiencies.	Low
AS480	OAS-018	4581	Airports, Flying Fields, and Airport Terminal Services	The southernmost outdoor aircraft engine test pad (located southwest of the building) contained a badly leaking test engine. Large POL stains were observed on the test pad. This area does drain to an OWS; however, this still represents improper practices.	Medium
AS488	OAS-018	4581	Airports, Flying Fields, and Airport Terminal Services	Bird wash (i.e., flightline aircraft wash pad) was in good condition. Actuated valves controlling stormwater runoff and rinsate appear to require repair (both in open position at time of inspection). No storage of POL/HM/HW onsite.	Medium
AS498	OAS-018	4581	Airports, Flying Fields, and Airport Terminal Services	Aircraft rapid refueler (2 of 2, located on northeast side of taxiway) was in good overall condition. No deficiencies were observed.	Low
AS508	OAS-021	4581	Airports, Flying Fields, and Airport Terminal Services	Maintenance hangar in good overall condition. Facility was very well kept with no observed deficiencies. Engine maintenance activities are conducted indoors.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
AS511	OAS-018	4581	Airports, Flying Fields, and Airport Terminal Services	Aircraft rapid refueler (1 of 2, located on southwest side of taxiway) was in good overall condition. No deficiencies were observed.	Low
AS514	OAS-018	4581	Airports, Flying Fields, and Airport Terminal Services	New painting facility. Aside from one generator AST, no other POL/HM/HW stored outdoors. Facility was in very good condition with no observed deficiencies.	Low
AS515	OAS-018	4581	Airports, Flying Fields, and Airport Terminal Services	Aircraft maintenance hangar that is currently undergoing renovations. No deficiencies identified.	Low
AS516	OAS-018, OAS-021, & OAS-030	4581	Airports, Flying Fields, and Airport Terminal Services	Maintenance facility with no outdoor storage of POL/HM/HW. Facility was in good overall condition.	Low
AS518	OAS-005 & OAS-018	4581	Airports, Flying Fields, and Airport Terminal Services	Aircraft maintenance hangar. Facility was in good condition with no deficiencies identified.	Low
AS541	OAS-030	4225	General Warehousing and Storage	Warehousing facility with an outdoor material storage area for wood & metal containers and pallets. Facility was in good condition with good housekeeping practices implemented throughout. No outdoor storage of POL/HM/HW.	Low
AS840	OAS-002 & OAS-003	4581	Airports, Flying Fields, and Airport Terminal Services	OWS effluent pump is not operational, causing all influent water to bypass to the stormwater system.	Medium
AS842	OAS-003	4581	Airports, Flying Fields, and Airport Terminal Services	Small hangar facility with no outdoor POL/HM/HW storage. Facility in good overall condition.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
AS890	OAS-001, OAS-008, & OAS-010	4581	Airports, Flying Fields, and Airport Terminal Services	Newer V-22 hangar. Facility was in good overall condition; however, the stormwater bypass/diversion valve was broken and needs replacement.	Medium
BB329	OCB-001 & OCB-013	3732	Boat Building and Repairing	Facility in excellent condition. All HM/HW stored indoors or in dedicated HM/HW storage buildings with integral containment. No signs of POL leaks or stains throughout large outdoor storage areas.	Low
BB360	OCB-016	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	The new combat engineering compound includes the following buildings/structures: BB360, BB361, BB361A, BB362, BB365, BB366, and the vehicle wash rack. All maintenance is conducted indoors at BB361 and BB362. In general, this facility was very well kept.	Low
BB51	OCB-001 & OCB-013	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	This facility includes BB51, BB150, & SBB150A. All maintenance is conducted indoors, and the facility was in good overall condition.	Low
CONT160	OFC-004	5171	Petroleum Bulk Stations and Terminals	Clean facility with no observed issues.	Low
CONT161	OCB-014	5171	Petroleum Bulk Stations and Terminals	No issues observed. Good housekeeping.	Low
CONT162	OHP-035	5171	Petroleum Bulk Stations and Terminals	Facility in very good condition with good housekeeping.	Low
ES101	OFC-008 & OFC-009	2499	Wood Products	Good housekeeping with very minimal materials subject to outdoor exposure. No HM/HW/POL storage outside building.	Low
FC100	OFC-012	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Vehicle maintenance was being conducted outdoors during inspection.	Medium

APPENDIX C

MCB Camp Lejeune



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
FC120	OFC-012	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good condition. Good housekeeping measures being implemented.	Low
FC143	OFC-009	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Good housekeeping throughout facility.	Low
FC200	OFC-008	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Outdoor maintenance being conducted at facility during inspection. Plus some poor housekeeping throughout outdoor material storage area.	Medium
FC211	OFC-009	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility currently inactive.	Low
FC230	OFC-003	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good overall condition.	Low
FC241	OFC-003	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Some minor POL leaks observed - no drip pans in use at these locations.	Low
FC251	OFC-003	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in great condition. Good housekeeping practices being implemented throughout facility.	Low
FC255	OFC-003 & OFC-005	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Observed deficiencies: (1) outdoor maintenance being performed (uncovered); (2) many active POL drips and stains under vehicles stored outdoors with no drip pans in use; (3) fresh POL stains observed near ASTs.	Medium
FC263	OFC-003 & OFC-005	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Active antifreeze leak observed and several fresh POL stains observed at outdoor vehicle storage area.	Medium



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
FC270	OFC-009	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Good housekeeping. No deficiencies noted.	Low
FC280	OFC-008	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good condition with good housekeeping.	Low
FC281	OFC-008	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good overall condition. No issues observed.	Low
FC285	OFC-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good overall condition.	Low
FC286	OFC-008	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Vehicle coating/painting and maintenance facility. AH observed floor cleaning operation that resulted in a discharge to exterior of building.	Medium
FC356	OFC-003	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good overall condition. Good housekeeping throughout.	Low
FC375	OFC-026	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Observed deficiencies at wash rack (improper storage of gas cannisters & wash water overspray).	Medium
FC40	OFC-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good overall condition.	Low
FC436	OFC-001 & OFC-002	N/A	Wastewater Treatment Works	In general, the WWTP grounds were in good condition with good housekeeping implemented. Two areas with outdoor storage of treatment chemicals (liquid carbon source and liquid polymer) were observed with no secondary containment.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
FC45	OFC-006	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in good overall condition. Some POL stains observed throughout outdoor vehicle storage area; however, facility had deployed drip pans for the majority of vehicles. Additionally, no active leaks were observed.	Low
FC57	OFC-027	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Vehicle maintenance facility: all maintenance activities are conducted indoors. A limited quantity of HM is stored outdoors inside a dedicated HM locker. Facility was in good overall condition.	Low
G484	OTC-002B	4225	General Warehousing and Storage	No outdoor storage at this facility (no HM/HW/POL storage outdoors). Facility was in good condition with no observed deficiencies.	Low
G485	OTC-002	4225	General Warehousing and Storage	Warehousing facility with a small outdoor material storage area that includes one small flammables locker. Good housekeeping implemented throughout storage area, and no deficiencies were observed.	Low
G773	OTC-004	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Wash rack OWS is clogged with sediment, causing overflow to the stormwater system. This issue has been recurring for 2 years and has been repeatedly reported to PWD per facility personnel. No other issues identified.	High
G865	OTC-005	4225	General Warehousing and Storage	New, small warehouse facility. HM stored in flammables lockers outdoors, but under permanent cover. Facility was very well-kept and in good overall condition.	Low
HP100	OHP-021	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Motor T facility that has been recently deployed. Very few vehicles stored outdoors at time of inspection. Facility was in good overall condition with no observed deficiencies.	Low
HP1016	OHP-008	2499	Wood Products	Small wood products/carpentry shop with no outdoor storage of POL/HM/HW. Facility was in good condition with good housekeeping.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
HP1017	OHP-008	4225	General Warehousing and Storage	Canned beverage / vending machine warehouse facility. No outdoor storage of POL/HM/HW. Facility was in good overall condition with no observed deficiencies.	Low
HP104	OHP-021	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Small Motor T facility with a small amount of HM stored outdoors in dedicated lockers. All maintenance is conducted indoors. No issues observed, although housekeeping could be improved at dumpster and Conex box storage areas.	Low
HP232	OHP-018	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Small Motor T facility, where all maintenance activities are conducted indoors. Aside from 3 ASTs, all other HM/HW is stored indoors. Two minor deficiencies were noted in the OMS area: (1) moderate sized POL stains were observed; & (2) poor housekeeping.	Low
HP237	OHP-018	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	The following deficiencies were noted: (1) large, fresh POL stains observed under several vehicles; (2) HM area with temporary spill berm was ~40% full of rainwater (suggests lack of daily inspection, needs draining); and (3) OWS contained trash/debris.	Medium
HP250	OHP-019	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility is currently undergoing renovations and is inactive. Regularly, this facility is a vehicle maintenance facility with combat vehicles and equipment stored outdoors behind the building. OWS grit chamber requires cleaning.	Low
M____ (Building ID TBD - new UPO PEB Warehouse)	OCJ-003	4225	General Warehousing and Storage	New UPO PEB warehouse facility that is currently under construction. Facility was not assessed for SWPPP compliance, but will be added to the SWPPP as a regulated industrial activity. Once operational, a compliance evaluation should be conducted.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
M107	OCJ-004	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Vehicle maintenance training facility. All HM/HW stored indoors. OMS was in good condition. Some broken sandbags present that should be disposed. Also, one roof leader had white staining on pavement (appeared to be from new roof coating).	Low
M150/M151	OCJ-004	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility includes M150 & M151. Small vehicle maintenance facility. All HM/HW stored indoors. Facility well kept and in good condition.	Low
M287	OCJ-003	4225	General Warehousing and Storage	Small warehouse facility with a small outdoor material storage area and two flammables lockers located outdoors. Facility was in good condition with good housekeeping throughout.	Low
M90	OCJ-001	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Motor T facility, where all maintenance activities are conducted indoors. Facility was very well-kept and in good overall condition. No deficiencies observed.	Low
NH100	ONH-002	5171	Petroleum Bulk Stations and Terminals	Bulk diesel fuel storage for Naval Hospital. Bulk storage area was in good condition with no observed deficiencies. The liquid transfer area is contained by concrete curbing. Area discharges to a spill containment basin with controlled outlet via PIV.	Low
NH118	ONH-001	4173	Terminal and Service Facilities for Motor Vehicle Passenger Transportation	Small maintenance facility for the Naval Hospital (some larger buses are stored/maintained at this location). Facility was in good overall condition, with no observed deficiencies. All maintenance activities are conducted indoors.	Low
RR121	ORR-013	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	One 55-gal drum of "non-hazardous" liquid waste was stored outdoors, uncovered, with no secondary containment	Medium
RR13	ORR-001 & ORR-014	2499	Wood Products	Facility in good condition. Small quantity of lumber stored outdoors (uncovered).	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
RR149	ORR-003	2499	Wood Products	Wood target fabrication. No HM/HW/POL stored outdoors.	Low
RR425	ORR-012	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Two major deficiencies observed: (1) several actively leaking vehicles observed with overflowing drip pans (also many POL stains observed); & (2) poor housekeeping.	High
RR430	ORR-012	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Multiple major deficiencies observed: (1) open 55-gal drums of used fuel stored outside with no secondary containment; (2) several actively leaking vehicles observed with overflowing drip pans (also many POL stains observed); & (3) poor housekeeping.	High
RR465	ORR-012	4225	General Warehousing and Storage	Warehousing facility in good overall condition. Exposure to stormwater is limited by use of sealed, outdoor storage containers.	Low
RR480	ORR-012	2499	Wood Products	Facility builds wood range targets. Most products are stored indoors or under permanent cover. Treated wood stored outdoors is stored under tarps. Facility in good condition. Small quantity of HM onsite (stored in a covered flammables locker).	Low
SM192A	OCJ-001	5171	Petroleum Bulk Stations and Terminals	Facility in good overall condition. No signs of POL drips/leaks in liquid transfer areas.	Low
SR72	OSR-001	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Small motor T facility that is rarely in use per facility personnel. The facility was in good condition overall; however, two POL drums with no secondary containment were being stored next to wash rack grit chamber.	Medium
TC366	OTC-003	5171	Petroleum Bulk Stations and Terminals	Facility in good overall condition. No signs of POL leaks or spills at liquid transfer/dispensing locations.	Low



Summary of Facilities Engaging in Regulated Industrial Activities

Building No.	Outfall No.	SIC Code	Industrial Activities	Comments	Pollution Potential
TC562	OTC-003	4225	General Warehousing and Storage	Facility in good overall condition. HM stored outdoors in enclosed HM lockers. A limited amount of misc. materials stored outdoors (untreated wood, concrete blocks).	Low
WC177	OWC-003	4225	General Warehousing and Storage	Warehouse facility. Two deficiencies identified at outdoor storage area: (1) poor housekeeping observed - open containers and trash observed on ground; and (2) one 55-gal drum of engine oil stored outside (uncovered) with no secondary containment.	High
WC178	OWC-003	4225	General Warehousing and Storage	Warehouse facility. Facility in good overall condition. Material storage occurs outdoors in a manner that limits exposure to stormwater. All HM/HW is stored indoors.	Low
WC200	OWC-001 & OWC-002	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Many leaking vehicles observed, some without drip pans and others with overflowing drip pans. Increased inspections recommended with prompt repair of any leaking vehicles.	High
WC501	OWC-004	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Facility in great condition. Outdoor vehicle storage area was clean with no signs of POL leaks/spills. Good housekeeping practices are being implemented throughout facility. All maintenance activities are conducted indoors.	Low
WC512	OWC-005	4225	General Warehousing and Storage	Warehousing facility with no outdoor HM/HW storage. Vehicles are stored outdoors in the open storage area behind the building. Facility was in good overall condition.	Low

Total Number of Records Found: 175

APPENDIX D

Outdoor Aboveground Storage Tanks

APPENDIX D

Outdoor Aboveground Storage Tanks

MCB Camp Lejeune



Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
1023-01AG	1023	OHP-008	Steel	Diesel Fuel	280	Double-Walled Tank	None.		Low
1023-02A	1023	OHP-008	Steel	Transformer Oil	2000	Double-Walled Tank	Tank labels (tank ID, capacity, and contents) are missing.		Low
961-01A	1070	OHP-012	Steel	MOGAS	15000	Concrete Containment	None.		Low
961-02A	1070	OHP-012	Steel	MOGAS	15000	Concrete Containment	None.		Low
961-03A	1070	OHP-012	Steel	Bio-Diesel	15000	Concrete Containment	None.		Low
961-04A	1070	OHP-012	Steel	Diesel	15000	Concrete Containment	None.		Low
961-05A	1070	OHP-012	Steel	Diesel	15000	Concrete Containment	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
961-06A	1070	OHP-012	Steel	Diesel	15000	Concrete Containment	None.		Low
961-11G	1070	OHP-012	Steel	Diesel Fuel	200	Double-Walled Tank	None.		Low
961-12A	1070	OHP-012	Steel	E-85 Fuel	10000	Double-Walled Tank	None.		Low
971-01A	1070	OHP-012	Steel	Kerosene	10000	Concrete Containment	None.		Low
972-01A	1070	OHP-012	Steel	MOGAS	60000	Concrete Containment	None.		Low
973-01A	1070	OHP-012	Steel	Jet Fuel	90000	Concrete Containment	None.		Low
AST1101	1101	OHP-010	Plastic	Unknown (unlabeled)		None	Unlabeled AST in poor condition (top partially collapsed).		Medium

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
1202-01G	1202	OHP-006	Steel	Diesel Fuel	150	Double-Walled Tank	None.		Low
1202-02G	1202	OHP-006	Steel	Diesel Fuel	600	Double-Walled Tank	None.		Low
1202-03G	1202	OHP-006	Steel	Diesel Fuel	150	Double-Walled Tank	None.		Low
1212-01G	1212	OHP-008	Steel	Diesel Fuel	1000	Double-Walled Tank	None.		Low
1212-02G	1212	OHP-008	Steel	Diesel Fuel	225	Double-Walled Tank	None.		Low
1323-03A	1323	OHP-008	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
1323-06A	1323	OHP-008	Steel	Used Fuel	250	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
1406-05A	1406	OHP-006	Steel	No. 2 Fuel Oil	270	Double-Walled Tank	None.		Low
1406-06A	1406	OHP-006	Steel	No. 2 Fuel Oil	270	Double-Walled Tank	None.		Low
1406-07A	1406	OHP-006	Steel	No. 2 Fuel Oil	270	Double-Walled Tank	None.		Low
1450-01A	1450	OHP-006	Steel	Used Fuel	500	Double-Walled Tank	None.		Low
1450-03A	1450	OHP-006	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
1450-04A	1450	OHP-006	Concrete	Diesel Fuel	250	Double-Walled Tank	Tank inactive.		Low
AST3A	1450	OHP-006	Steel	Used Coolant	500	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
1502-01A	1502	OHP-006	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
1522-01G	1522	OHP-006	Steel	Diesel Fuel	125	Double-Walled Tank	None.		Low
1522-02A	1522	OHP-006	Steel	Used Oil	500	Double-Walled Tank	None.		Low
1522-03A	1522	OHP-006	Steel	Diesel Fuel	500	Double-Walled Tank	None.		Low
AST131B	1522	OHP-006	Steel	Used Antifreeze	300	Double-Walled Tank	None.		Low
1747-01A	1747	OHP-015	Steel	Used Antifreeze	520	Concrete Containment	None.		Low
1747-04A	1747	OHP-015	Steel	Used Oil	500	Concrete Containment	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
1747-05A	1747	OHP-015	Steel	Used Fuel	500	Concrete Containment	None.		Low
1775-01A	1775	OHP-006	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
1780-01A	1780	OHP-005	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
1829-03A	1829	OHP-006	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
1841-01A	1841	OHP-017	Steel	Used Oil	500	Concrete Containment	AST is empty and appears to be inactive/abandoned.		Low
1841-02A	1841	OHP-017	Steel	Used Antifreeze	250	Concrete Containment	AST is empty and appears to be inactive/abandoned.		Low
1841-03A	1841	OHP-017	Steel	Used Fuel	250	Concrete Containment	AST is empty and appears to be inactive/abandoned.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
1841-04A	1841	OHP-017	Steel	Used Oil	500	Double-Walled Tank	None.		Low
1841-05A	1841	OHP-017	Steel	Used Fuel	250	Double-Walled Tank	None.		Low
1853-01A	1854	OHP-002	Steel	Used JP-8	260	Concrete Containment	Tank battalion facility is currently inactive (no tenant).		Low
1854-01A	1854	OHP-002	Steel	Used Oil	1000	Double-Walled Tank	Tank battalion facility is currently inactive (no tenant).		Low
1854-04A	1854	OHP-002	Steel	Used Oil	1000	Double-Walled Tank	Tank battalion facility is currently inactive (no tenant).		Low
1860-01A	1860	OHP-001	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
1880-03A	1880	OHP-001	Steel	Used Oil	1000	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
722-01A	198	OOH-008	Steel	Gasoline	4000	Double-Walled Tank	None.		Low
25-01G	25	OHP-027	Steel	Diesel Fuel	550	Double-Walled Tank	None.		Low
575-01A	575	OHP-001	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
575-02A	575	OHP-001	Steel	Used Diesel Fuel	500	Double-Walled Tank	None.		Low
575-03A	575	OHP-001	Steel	Used Oil	1000	Double-Walled Tank	Incorrect AST label ("Waste Oil").		Low
AS839-01G	575	OHP-001	Steel	Diesel Fuel	300	Double-Walled Tank	None.		Low
AST128A	575	OHP-001	Steel	Used Antifreeze	300	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
902-01A	902	OHP-012	Steel	Diesel Fuel	1000	Double-Walled Tank	None.		Low
902-03G	902	OHP-012	Steel	Diesel Fuel	250	Double-Walled Tank	None.		Low
962-06A	977	OHP-012	Steel	Used Oil	20000	Berm / Curbing	None.		Low
962-07A	977	OHP-012	Steel	Used Oil	20000	Berm / Curbing	None.		Low
962-08A	977	OHP-012	Steel	Used Oil	20000	Berm / Curbing	None.		Low
962-09A	977	OHP-012	Steel	Used Oil	20000	Berm / Curbing	None.		Low
962-10A	977	OHP-012	Steel	Used Fuel	20000	Berm / Curbing	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
962-11A	977	OHP-012	Steel	Used Fuel	20000	Berm / Curbing	None.		Low
962-12A	977	OHP-012	Steel	Used Oil	20000	Berm / Curbing	None.		Low
962-15A	977	OHP-012	Steel	Used Gasoline	4000	Double-Walled Tank	None.		Low
962-16A	977	OHP-012	Steel	Used Diesel	10000	Double-Walled Tank	None.		Low
962-17A	977	OHP-012	Steel	Used Oil	120	Double-Walled Tank	None.		Low
S-1083	977	OHP-012	Steel	Used Antifreeze	20000	Berm / Curbing	None.		Low
768-01G	982	OLF-001	Steel	Diesel Fuel	300	Double-Walled Tank	AST (generator) in good condition.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type	Comments	Pollution Potential
982-01G	982	OLF-001	Steel	Diesel Fuel	250	Double-Walled Tank	Generator AST.	Low
989-01A	989	OFC-013	Steel	No. 2 Fuel Oil	1500	Metal Containment	Excessive surface corrosion observed on AST and secondary containment structure.	Medium
989-02AG	989	OFC-013	Steel	Diesel Fuel	200	Double-Walled Tank	Excessive surface corrosion observed on outer AST layer.	Medium
A1-01A	A1	OAB-007	Steel	No. 2 Fuel Oil	1500	Double-Walled Tank	Some surface corrosion observed (needs re-coating).	Low
A47-01A	A47	OAB-001	Steel	Diesel Fuel	10000	Double-Walled Tank	None.	Low
A52-06A	A47	OAB-001	Steel	Used Diesel	1000	Double-Walled Tank	None.	Low
A52-09A	A47	OAB-001	Steel	Used Oil	1000	Double-Walled Tank	None.	Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
A52-10A	A47	OAB-001	Steel	Used Antifreeze	500	Double-Walled Tank	None.		Low
A52-11A	A47	OAB-001	Steel	Used Antifreeze	500	Double-Walled Tank	None.		Low
A66-01A	A66	OAB-007	Steel	Used Fuel	500	Double-Walled Tank	None.		Low
A66-02A	A66	OAB-007	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
A98-01A	A66	OAB-007	Concrete	Empty	1000	Double-Walled Tank	Tank abandoned in place - not used.		Low
A98-02A	A66	OAB-007	Concrete	Empty	500	Double-Walled Tank	Tank abandoned in place - not used.		Low
A71-01G	A71	OAB-007	Steel	Diesel Fuel	150	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
A72-01A	A71	OAB-007	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
AS122-01G	AS122	OAS-032	Steel	Diesel Fuel	650	Double-Walled Tank	None.		Low
AS140-02A	AS143	OAS-005	Steel	JP-5 Fuel (Jet Fuel)	500	Double-Walled Tank	None.		Low
AS143-01A	AS143	OAS-005	Steel	MOGAS	10000	Double-Walled Tank	None.		Low
AS143-02G	AS143	OAS-005	Steel	Diesel Fuel	125	Double-Walled Tank	Generator AST.		Low
AS148-03A	AS143	OAS-005	Steel	Used Fuel	350	Double-Walled Tank	None.		Low
AS171A-01A	AS143	OAS-005	Steel	JP-5 Fuel (Jet Fuel)	200000	Concrete Containment	Tank volume is a visual estimate - no capacity information provided on tank.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type	Comments	Pollution Potential
AS172A-01A	AS143	OAS-005	Steel	JP-5 Fuel (Jet Fuel)	200000	Concrete Containment	Tank volume is a visual estimate - no capacity information provided on tank.	Low
AS173A-01A	AS143	OAS-005	Steel	JP-5 Fuel (Jet Fuel)	200000	Concrete Containment	Tank volume is a visual estimate - no capacity information provided on tank.	Low
AS174A-01A	AS143	OAS-005	Steel	JP-5 Fuel (Jet Fuel)	200000	Concrete Containment	Tank volume is a visual estimate - no capacity information provided on tank.	Low
AST56	AS143	OAS-005	Steel	JP-5 Fuel (Jet Fuel)	500	Double-Walled Tank	None.	Low
SAS146	AS143	OAS-005	Steel	Diesel Fuel	400	Double-Walled Tank	Generator AST.	Low
SAS149	AS143	OAS-005	Steel	Diesel Fuel	400	Double-Walled Tank	Generator AST.	Low
AS2820-01A	AS2820	OAS-001	Steel	Gasoline	3000	Double-Walled Tank	None.	Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
AS3517-01A	AS3517	OAS-014	Steel	JP-5 Fuel	5000	Concrete Containment	None.		Low
AS3517-02A	AS3517	OAS-014	Steel	JP-5 Fuel	5000	Concrete Containment	None.		Low
AS3517-03A	AS3517	OAS-014	Steel	Used Oil	5000	Concrete Containment	None.		Low
AS3517-04A	AS3517	OAS-014	Steel	Used Oil	5000	Concrete Containment	None.		Low
AS3525-01A	AS3525	OAS-014	Steel	Used Oil	1000	Double-Walled Tank	No Tank ID label on tank.		Low
AS3525-02A	AS3525	OAS-014	Concrete	Used Antifreeze	250	Double-Walled Tank	No Tank ID label on tank.		Low
AS4060-01A	AS3525	OAS-014	Steel	Used Oil	1000	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type	Comments	Pollution Potential
AS3905-01A	AS3905	OAS-005	Steel	Used Oil	1000	Double-Walled Tank	AST in good condition.	Low
AS3905-04AG	AS3905	OAS-005	Steel	Diesel Fuel	260	Double-Walled Tank	AST in good condition.	Low
AS3905-05A	AS3905	OAS-005	Steel	Used Oil	350	Double-Walled Tank	AST in good condition.	Low
AS3905-06A	AS3905	OAS-005	Steel	Used Fuel	350	Double-Walled Tank	AST in good condition.	Low
AS4085-01G	AS4085	OAS-005	Concrete	Diesel Fuel	250	Double-Walled Tank	Generator AST in good condition.	Low
AS4112-01A	AS4100	OAS-005	Steel	Used O]	500	Double-Walled Tank	AST in good condition.	Low
AS4108-01A	AS4108	OAS-005	Steel	Used Oil	1000	Double-Walled Tank	AST in good condition.	Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type	Comments	Pollution Potential
AS4108-04A	AS4108	OAS-005	Steel	Used Fuel	350	Double-Walled Tank	AST in good condition.	Low
AS4108-05A	AS4108	OAS-005	Steel	Used Fuel	350	Double-Walled Tank	AST in good condition.	Low
AS4109-01A	AS4109	OAS-005	Steel	Used Fuel	300	Double-Walled Tank	AST in good condition.	Low
AS4109-02G	AS4109	OAS-005	Steel	Diesel Fuel	375	Double-Walled Tank	AST in good condition (generator AST).	Low
AS4135-01A	AS4135	OAS-005	Steel	Gasoline	1000	Double-Walled Tank	None.	Low
AS4135-02A	AS4135	OAS-005	Steel	JP-8 Fuel	1000	Double-Walled Tank	None.	Low
AS4135-03A	AS4135	OAS-005	Steel	Used Fuel	1000	Double-Walled Tank	None.	Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
AS4135-04A	AS4135	OAS-005	Steel	Used Fuel	350	Double-Walled Tank	None.		Low
AS4146-01A	AS4146	OAS-005	Steel	Diesel Fuel	2000	Double-Walled Tank	None.		Low
AS4147-02A	AS4146	OAS-005	Steel	Used Oil	500	Double-Walled Tank	None.		Low
AS4147-03A	AS4146	OAS-005	Steel	Used Fuel	350	Double-Walled Tank	None.		Low
AS4147A-01G	AS4146	OAS-005	Steel	Diesel Fuel	200	Double-Walled Tank	None.		Low
AS4158-01A	AS4158	OAS-004	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
AS4159-01A	AS4158	OAS-004	Steel	Used Fuel	1000	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
AS4159-04A	AS4158	OAS-004	Steel	JP-8 Fuel	6000	Double-Walled Tank	None.		Low
AS4232-01A	AS4158	OAS-004	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
AS4192-01G	AS4192	OAS-006	Steel	Diesel Fuel	300	Double-Walled Tank	None.		Low
AS428-01AG	AS427	OAS-021	Steel	Diesel Fuel	550	Double-Walled Tank	AST in good condition (generator).		Low
AS428-02G	AS427	OAS-021	Steel	Diesel Fuel	180	Double-Walled Tank	AST in good condition (generator).		Low
AS429-01G	AS427	OAS-021	Steel	Diesel Fuel	270	Double-Walled Tank	AST in good condition (generator).		Low
AS480-01A	AS480	OAS-018	Steel	JP-5 Fuel	1000	Concrete Containment	AST in good condition.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type	Comments	Pollution Potential
AS480-02A	AS480	OAS-018	Steel	JP-5 Fuel	1000	Concrete Containment	AST in good condition.	Low
AS480-03A	AS480	OAS-018	Steel	JP-5 Fuel	1000	Concrete Containment	AST in good condition.	Low
AS480-04A	AS480	OAS-018	Steel	JP-5 Fuel	1000	Concrete Containment	AST in good condition.	Low
AS592-01A	AS480	OAS-018	Steel	JP-5 Fuel	1000	Concrete Containment	AST in good condition.	Low
AS498-01G	AS498	OAS-018	Steel	Diesel Fuel	650	Double-Walled Tank	Generator AST in good condition.	Low
AS508-01G	AS508	OAS-021	Steel	Diesel Fuel	474	Double-Walled Tank	AST in good condition (generator).	Low
AS508-02A	AS508	OAS-021	Steel	Used Oil	500	Double-Walled Tank	AST in good condition.	Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type	Comments	Pollution Potential
AS508-04A	AS508	OAS-021	Steel	Used Fuel	350	Double-Walled Tank	AST in good condition.	Low
AS508-05A	AS508	OAS-021	Plastic	Used Oil	250	Double-Walled Tank	AST in good condition. No capacity label - assumed 250 gal.	Low
AS514-01A	AS514	OAS-018	Steel	Diesel Fuel	300	Double-Walled Tank	Tank not marked (no ID or content label). Otherwise, AST was in good condition.	Low
AS515-02A	AS515	OAS-018	Steel	Used Oil	1000	Double-Walled Tank	None.	Low
AS515-05A	AS515	OAS-018	Steel	Used Fuel	350	Double-Walled Tank	None.	Low
AS515-06A	AS515	OAS-018	Steel	Used Fuel	350	Double-Walled Tank	None.	Low
AS515-07A	AS515	OAS-018	Steel	Used Fuel	350	Double-Walled Tank	None.	Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
AS518-01A	AS518	OAS-005	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
AS840-02A	AS840	OAS-002	Steel	Used Fuel	280	Double-Walled Tank	AST in good condition.		Low
AS840-03A	AS840	OAS-002	Steel	Used Oil	280	Double-Walled Tank	AST in good condition.		Low
AS890-01A	AS890	OAS-001	Steel	Used Fuel	300	Double-Walled Tank	None.		Low
AS890-02A	AS890	OAS-001	Steel	Used Oil	300	Double-Walled Tank	None.		Low
AS890-03A	AS890	OAS-008	Steel	Used Fuel	300	Double-Walled Tank	None.		Low
AS890-04A	AS890	OAS-008	Steel	Used Oil	300	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
AS890-05G	AS890	OAS-008	Steel	Diesel Fuel	1600	Double-Walled Tank	None.		Low
BB51-04A	BB51	OCB-001	Steel	Used Fuel	500	Double-Walled Tank	None.		Low
BB51-05A	BB51	OCB-001	Steel	Used Oil	500	Double-Walled Tank	None.		Low
100	CONT160	OFC-004	Steel	Jet Fuel	20000	Double-Walled Tank	None.		Low
101	CONT160	OFC-004	Steel	Jet Fuel	20000	Double-Walled Tank	None.		Low
102	CONT160	OFC-004	Steel	Jet Fuel	20000	Double-Walled Tank	None.		Low
103	CONT160	OFC-004	Steel	Jet Fuel	20000	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
104	CONT160	OFC-004	Steel	Diesel Fuel	12000	Double-Walled Tank	None.		Low
105	CONT160	OFC-004	Steel	Gasoline	12000	Double-Walled Tank	None.		Low
CONT160-07AG	CONT160	OFC-004	Steel	Diesel Fuel	120	Double-Walled Tank	Generator AST.		Low
200	CONT161	OCB-014	Steel	Jet Fuel	20000	Double-Walled Tank	None.		Low
201	CONT161	OCB-014	Steel	Jet Fuel	20000	Double-Walled Tank	None.		Low
202	CONT161	OCB-014	Steel	Jet Fuel	20000	Double-Walled Tank	None.		Low
203	CONT161	OCB-014	Steel	Jet Fuel	20000	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
204	CONT161	OCB-014	Steel	Diesel Fuel	12000	Double-Walled Tank	None.		Low
205	CONT161	OCB-014	Steel	Gasoline	12000	Double-Walled Tank	None.		Low
CONT161-07AG	CONT161	OCB-014	Steel	Diesel Fuel	120	Double-Walled Tank	Generator AST.		Low
300	CONT162	OHP-035	Steel	Jet Fuel	20000	Double-Walled Tank	None.		Low
301	CONT162	OHP-035	Steel	E-85 Fuel	12000	Double-Walled Tank	None.		Low
302	CONT162	OHP-035	Steel	Jet Fuel	12000	Double-Walled Tank	None.		Low
CONT162-07AG	CONT162	OHP-035	Steel	Diesel Fuel	120	Double-Walled Tank	Generator AST.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
FC100-02A	FC100	OFC-012	Steel	Used Oil	500	Double-Walled Tank	None.		Low
FC100-03A	FC100	OFC-012	Steel	Jet Fuel	1000	Double-Walled Tank	None.		Low
FC100-04A	FC100	OFC-012	Steel	Jet Fuel	1000	Double-Walled Tank	None.		Low
FC120-03A	FC120	OFC-012	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
FC201-01A	FC200	OFC-008	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
AST42	FC211	OFC-009	Steel	Used Oil	520	Concrete Containment	None.		Low
FC230-06A	FC230	OFC-003	Steel	Used Oil	1000	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
FC241-03A	FC241	OFC-003	Steel	Used Oil	500	Double-Walled Tank	None.		Low
FC241-05A	FC241	OFC-003	Steel	No. 2 Fuel Oil	1000	Double-Walled Tank	None.		Low
FC251-01A	FC251	OFC-003	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
AST129B	FC255	OFC-003	Steel	Used Antifreeze	300	Double-Walled Tank	None.		Low
FC255-05A	FC255	OFC-003	Steel	Used Oil	500	Double-Walled Tank	None.		Low
FC255-06A	FC255	OFC-003	Steel	Used Diesel	500	Double-Walled Tank	None.		Low
FC263-04A	FC263	OFC-003	Steel	Used Oil	1000	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
FC270-03A	FC270	OFC-009	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
FC280-01A	FC280	OFC-008	Steel	JP-8 Fuel	500	Double-Walled Tank	None.		Low
FC280-02A	FC280	OFC-008	Steel	Used Oil	500	Double-Walled Tank	None.		Low
FC280-03A	FC280	OFC-008	Steel	JP-8 Fuel	500	Double-Walled Tank	None.		Low
FC282-01A	FC280	OFC-008	Steel	Used Antifreeze	500	Double-Walled Tank	None.		Low
FC283-01A	FC280	OFC-008	Steel	Used Fuel	500	Double-Walled Tank	None.		Low
FC286-01A	FC286	OFC-008	Steel	Used Oil	1000	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
FC375-01A	FC375	OFC-026	Concrete	Used Oil	500	Double-Walled Tank	None.		Low
FC3782-01A	FC375	OFC-026	Steel	Diesel Fuel	1000	Double-Walled Tank	None.		Low
FC40-02A	FC40	OFC-006	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
FC442-01AG	FC436	OFC-001	Steel	Diesel Fuel	4000	Double-Walled Tank	None.		Low
FC442-02A	FC436	OFC-001	Steel	Used Oil	385	Double-Walled Tank	None.		Low
FC443-03AG	FC436	OFC-001	Steel	Diesel Fuel	4000	Double-Walled Tank	None.		Low
FC444-07A	FC436	OFC-001	Steel	Diesel Fuel	550	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
FC445-01AG	FC436	OFC-002	Steel	Diesel Fuel	4000	Double-Walled Tank	None.		Low
FC45-01A	FC45	OFC-006	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
G773-01A	G773	OTC-004	Steel	Used Antifreeze	280	Double-Walled Tank	None.		Low
TC773-06A	G773	OTC-004	Steel	Used Oil	280	Double-Walled Tank	None.		Low
HP100-02A	HP100	OHP-021	Steel	Used Oil	1000	Double-Walled Tank	AST in good condition.		Low
AST51A	HP232	OHP-018	Steel	Used Antifreeze	300	Double-Walled Tank	None.		Low
HP232-03A	HP232	OHP-018	Steel	Used Fuel	500	Double-Walled Tank	None.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
HP232-05A	HP232	OHP-018	Steel	Used Oil	500	Double-Walled Tank	None.		Low
HP237-03A	HP237	OHP-018	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
HP250-02A	HP250	OHP-019	Steel	Used Oil	1000	Double-Walled Tank	Facility is currently undergoing renovations and is inactive.		Low
NH100-02A	NH100	ONH-002	Steel	Diesel Fuel	20000	Double-Walled Tank	None.		Low
NH100-03A	NH100	ONH-002	Steel	Diesel Fuel	20000	Double-Walled Tank	None.		Low
NH100-04A	NH100	ONH-002	Steel	Diesel Fuel	20000	Double-Walled Tank	None.		Low
NH118-01A	NH118	ONH-001	Steel	Gasoline	1000	Double-Walled Tank	Spill kit located next to AST.		Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type	Comments	Pollution Potential
NH118-03A	NH118	ONH-001	Steel	Used Oil	250	Double-Walled Tank	Spill kit located next to AST.	Low
RR421-01A	RR430	ORR-012	Steel	MOGAS	6000	Double-Walled Tank	None.	Low
RR422-01A	RR430	ORR-012	Steel	JP-8 Fuel	10000	Double-Walled Tank	Fill piping appeared to be dripping lightly. Drip pans in use to collect drippings were full of water. One oily rag was also left on ground.	Medium
RR430-03A	RR430	ORR-012	Concrete	Used Oil	1000	Double-Walled Tank	Inlet piping appeared to be either leaking, or leaks are common during used oil offloading. Absorbent pads were in use to control leaks.	Medium
RR430-04A	RR430	ORR-012	Concrete	Used Fuel	500	Double-Walled Tank	None.	Low
RR430A-01G	RR430	ORR-012	Steel	Diesel Fuel	2800	Double-Walled Tank	None.	Low
RR430B-01G	RR430	ORR-012	Steel	Diesel Fuel	1300	Double-Walled Tank	None.	Low

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Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
RR465-01G	RR430	ORR-012	Steel	Diesel Fuel	450	Double-Walled Tank	None.		Low
AST93	SM192A	OCJ-001	Steel	Jet Fuel	5000	Double-Walled Tank	None.		Low
AST94	SM192A	OCJ-001	Steel	Jet Fuel	5000	Concrete Containment	None.		Low
AST95	SM192A	OCJ-001	Steel	MOGAS	5000	Concrete Containment	None.		Low
SR72-01G	SR72	OSR-001	Steel	Diesel Fuel	240	Double-Walled Tank	Generator AST in good condition.		Low
SR72-02A	SR72	OSR-001	Concrete	JP-8 Fuel	6000	Double-Walled Tank	AST in good condition.		Low
AST100	TC366	OTC-003	Steel	Bio-Diesel	10000	Double-Walled Tank	None.		Low

APPENDIX D

Outdoor Aboveground Storage Tanks

MCB Camp Lejeune



Feature ID	Building No.	Outfall No.	Tank Material	Contents	Volume	Secondary Containment Type		Comments	Pollution Potential
AST96	TC366	OTC-003	Steel	E-85	10000	Double-Walled Tank	None.		Low
AST97	TC366	OTC-003	Steel	MOGAS	10000	Double-Walled Tank	None.		Low
AST98	TC366	OTC-003	Steel	Diesel Fuel	10000	Double-Walled Tank	None.		Low
AST99	TC366	OTC-003	Steel	Jet Fuel	10000	Double-Walled Tank	None.		Low
AST130B	WC200	OWC-001	Steel	Used Antifreeze	300	Double-Walled Tank	None.		Low
WC200-01A	WC200	OWC-001	Steel	Used Oil	1000	Double-Walled Tank	None.		Low
WC200-02A	WC200	OWC-001	Steel	Used Diesel	500	Double-Walled Tank	None.		Low

Total Number of Records Found: 238

APPENDIX E

Outdoor Hazardous Material / Hazardous Waste Management Areas

APPENDIX E

MCB Camp Lejeune



Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
1023-01DM	1023	OHP-008	POL's	MCIEAST-MCB Camp Lejeune, G- F, P/W	Plastic HM lockers w/ integral sump	HM lockers in good overall condition with adequate secondary containment.	Low
1023-02DM	1023	OHP-008	Misc. Hazardous Materials	MCIEAST-MCB Camp Lejeune, G- F, P/W	HM locker w/ integral sump	HM locker in good overall condition with adequate secondary containment.	Low
1023-03DM	1023	OHP-008	POL's	MCIEAST-MCB Camp Lejeune, G- F, P/W	Plastic HM lockers w/ integral sump	HM lockers in good overall condition with adequate secondary containment.	Low
1047-01DM	1047	OHP-043 & OHP-044	Misc. Flammables	MCIEAST-MCB Camp Lejeune, G-3	Flammables lockers	Flammables lockers are located under permanent cover.	Low
927-01DM	1070	OHP-012	Misc. Hazardous Materials	Louis Berger (Contractor)	Flammables locker	None.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
1202-01DM	1202	OHP-006	Misc. Hazardous Materials	EMI	Covered area with spill pallets	Covered area with spill pallets and one flammables locker in overall good condition. Spill kit located onsite.	Low
1301-01 & 1301-02	1301	OHP-010	Misc. Flammables	-	Flam. Lockers	None.	Low
1311-01DM	1311	OHP-006	Misc. Flammables	II MEF	HM locker w/integral sump	None.	Low
1323-01DM	1323	OHP-008	POL's	-	HM lockers & bermed/covered areas	HM management area in good condition. Many empty/used drums stored outdoors but in temporary spill containment berms.	Low
1405-06DP, 1405-05DM	1405	OHP-006	POL's	-	HM locker with integral sump	Prefab HM locker with POL drums.	Low
A-HP-1408-CL00088	1408	OHP-006	POL's	MCIEAST-MCB Camp Lejeune, PHOENIX	Covered area with spill pallets	Covered/enclosed POL drum storage area in good condition.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
1445-01DM	1445	OHP-006	Misc. Hazardous Materials	-	HM locker w/ integral sump	None.	Low
1450-01DM	1450	OHP-006	POL's	-	Covered/bermed area; spill pallets	Three deficiencies: (1) multiple full 55-gal drums of engine oil stored with no secondary containment; (2) spill pallets full of a rainwater/oil mix, which was overflowing to ground near a stormwater catch basin; and (3) bermed area full of rainwater.	High
1465-01DM	1465	OHP-042	Misc. Hazardous Materials	2d Marine Logistics Group, CLB-6	Flammables locker	None.	Low
1506-01DM	1506	OHP-006	Misc. Hazardous Materials	26 MEU	HM locker w/ integral sump	None.	Low
1522-01DM	1522	OHP-006	POL's	2d Marine Division, HQBN	HM locker with integral sump	Prefab HM locker.	Low

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MCB Camp Lejeune



Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
S1714-01DP	1710	OHP-006	POL's	-	Covered area with concrete curbing	None.	Low
S1746-01DP	1747	OHP-015	POL's	-	Covered area with concrete curbing	Spill kit onsite.	Low
1780-01DP	1780	OHP-005	POL's	2d Marine Division, HQBN	Covered area w/ containment berm	Good condition with multiple spill kits onsite.	Low
A-HP-S1836-MD310 & 1829/S1836-01DP	1829	OHP-006	POL's	2d Marine Logistics Group, CLR-27	Covered area with concrete curbing	None.	Low
1841-04DP	1841	OHP-017	POL's	G-F, P/W	HM locker with integral sump	None.	Low

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MCB Camp Lejeune



Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
S1896-06DP, S1853-03DP, A-HP-S1853-CL00014, S1853-04DP, S1853-05O, A-HP-1856-CL00014	1854	OHP-002 & OHP-004	N/A (empty)	-	N/A (empty)	Inactive HM storage (currently empty). No tenant at Building 1854 currently.	Low
1860-01DM	1860	OHP-001	POL's	2d Marine Division, HQBN	Covered area with berming	HM area in good condition. PIV closed.	Low
A-HP-1884-MDCEB	1880	OHP-001	POL's	2d Marine Logistics Group, 2d TSB	Covered area with spill pallets	HM stored in a dedicated, covered storage area with spill pallets. Some used/empty 55-gal drums stored uncovered with no containment.	Low
25-01DM	25	OHP-027	Misc. Hazardous Materials	MCIEAST-MCB Camp Lejeune, G-6	Flammables locker	Located under permanent cover.	Low

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MCB Camp Lejeune



Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
S579-06DP, S579-03DW, S579-07DP	575	OHP-001 & OHP-014	POL's	2d Marine Division, 2d LAR Bn.	Covered area with sloped drainage	Covered HM storage area for POL's and other misc. HM. The concrete floor is sloped to the middle, directed to a catch basin connected to the nearby OWS. Some POL containers were stored at outside edge of area with no secondary containment.	Low
977-01DM	977	OHP-012	POL's	EMD	Covered area with curbing	HM area in good overall condition. Multiple spill kits onsite.	Low
982-01DP	982	OLF-001	POL's	MCIEAST-MCB Camp Lejeune, G-F, P/W	Plastic HM locker with sump	HM locker in good condition.	Low
A47-001	A47	OAB-001	POL's (used)	2d Marine Division, 2d AABN	Covered area with drainage to OWS	None.	Low
B-AA-SA52	A47	OAB-001	POL's	2d Marine Division, 2d AABN	Covered area with drainage to OWS	None.	Low
B-AA-SA52-2	A47	OAB-001	POL's	2d Marine Division, 2d AABN	Covered area with drainage to OWS	None.	Low

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MCB Camp Lejeune



Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
B-AA-SA52-CL00006	A47	OAB-001	POL's	2d Marine Division, 2d AABN	Covered area with drainage to OWS	None.	Low
A66-01DM	A66	OAB-007	POL's	Marine Special Operations Command, 2d MRB	HM locker with integral sump	HM locker in good overall condition	Low
A72-01DM	A71	OAB-007	POL's	2d Marine Division, 2d Recon Bn.	Covered locker w/ containment sump	None.	Low
A72-02DM	A71	OAB-007	POL's	2d Marine Division, 2d Recon Bn.	Covered locker w/ containment sump	None.	Low
A72-03DM	A71	OAB-007	POL's	2d Marine Division, 2d Recon Bn.	Covered locker w/ containment sump	None.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
SA82-02DP	A71	OAB-007	POL's	2d Marine Division, 2d Recon Bn.	Covered area with containment sump	None.	Low
AS118-03DP	AS118	OAS-032	POL's	MCIEAST-MCB Camp Lejeune, Phoenix	HM locker with sump	None.	Low
AS122-01DM	AS122	OAS-005	Misc. Flammables	EMI	Flammables locker	Locker in good condition.	Low
AS122-01DM	AS122	OAS-032	Misc. Flammables	EMI	Flammables locker	Locker in good condition & located under permanent cover.	Low
AS143-01DM	AS143	OAS-005	POL's	MCAS Fuels Division	Flammables locker	Flammables locker in good condition.	Low
AS143-02DM	AS143	OAS-005	POL's	MCAS Fuels Division	HM locker with integral sump	HM locker in good condition.	Low

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MCB Camp Lejeune



Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
AS143-03DM	AS143	OAS-005	POL's	MCAS Fuels Division	Plastic HM lockers w/ sump	Plastic HM locker with integral sump in good condition.	Low
AS143-04DM	AS143	OAS-005	POL's	MCAS Fuels Division	Plastic HM lockers w/ sump	Plastic HM locker with integral sump in good condition.	Low
AS1438-MOB	AS143	OAS-005	POL's	MCAS Fuels Division	Plastic HM lockers (multiple)	Plastic HM lockers with integral sumps in good condition.	Low
AS2820-01DM	AS2820	OAS-001	POL's	MCAS Marina, MCCS	HM locker with integral sump	HM locker was in good condition.	Low
AS3517-LUL	AS3517	OAS-014	POL's	-	Plastic containment	Mobile 55-gal drum with containment.	Low
AS3525-01	AS3525	OAS-014	Used POL's, Misc. HW	MCAS Environmental Affairs	HM/HW locker w/ integral sump	HW accumulation site - MCAS Environmental Affairs.	Low

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MCB Camp Lejeune



Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
AS3534-01DM	AS3534	OAS-014	POL's	MACS-2	HM locker w/integral sump	HM locker in good condition.	Low
AS4100-01DM	AS4100	OAS-005	POL's	VMM-266	HM locker with integral sump	HM locker in good condition.	Low
AS4108-01DM	AS4108	OAS-005	Misc. Flammables	HMLA-167	Flammables locker	Flammables locker in good condition.	Low
AS4146-01DM	AS4146	OAS-005	Misc. Flammables	MALS-29	Flammables lockers	5 flammables lockers stored under permanent cover. All in good condition with a spill kit nearby.	Low
AS4146-02DM	AS4146	OAS-005	POL's	MALS-29	Permanent HM building/room	Permanent HM building/room in good condition with a spill kit nearby.	Low
AS4158-01DM	AS4158	OAS-004	POL's	MWSS-272	HM locker with integral sump	HM locker was in good condition.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
AS4158-06DP	AS4158	OAS-004	POL's & Cleaners	MWSS-272	HM lockers with integral sumps	HM lockers were in good condition. Additionally, covered area with temporary spill berms (55-gal drum storage) was in good condition; however, one 55-gal drum of cleaner was located outside locker with no secondary containment.	Medium
AS4159-01DM	AS4158	OAS-004	Misc. Flammables	MWSS-272	Flammables lockers	Flammables locker located under permanent cover.	Low
AS4192-01DM	AS4192	OAS-006	POL's	MWSS-272	Flammables locker	Flammables locker was in good condition.	Low
AS4192-02DM	AS4192	OAS-006	POL's	MWSS-272	HM locker with integral sump	HM locker was in good condition.	Low
AS424-01DM	AS424	OAS-030	Misc. Flammables	MWSS-272	Flammables locker	Flammables locker in good condition.	Low
AS508-01DM	AS508	OAS-021	Misc. Flammables	VMMT-204	Flammables locker	Flammables locker in good condition.	Low

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MCB Camp Lejeune



Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
AS508-02DM	AS508	OAS-021	Misc. Flammables	VMMT-204	Plastic HM locker w/ integral sump	HM locker in good condition.	Low
AS511-01DM	AS511	OAS-018	Misc. Flammables	Rapid Refueler	Flammables locker	Flammables locker located under covered area and in good condition.	Low
AS518-01DM	AS518	OAS-005	Misc. Flammables	MALS-26	Flammables locker	Flammables locker in good condition. Spill kit located nearby.	Low
AS518-02DM	AS518	OAS-005	Misc. Hazardous Materials	MALS-26	HM locker with integral sump	HM locker in good condition. Spill kit located nearby.	Low
AS518-03DM	AS518	OAS-005	Misc. Hazardous Materials	MALS-26	HM locker with integral sump	HM locker in good condition. Spill kit located nearby.	Low
AS518-04DM	AS518	OAS-005	Misc. Hazardous Materials	MALS-26	HM locker with integral sump	HM locker in good condition. Spill kit located nearby.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
AS518-05DM	AS518	OAS-005	Misc. Hazardous Materials	MALS-26	HM locker with integral sump	HM locker in good condition. Spill kit located nearby.	Low
AS840-01DM	AS840	OAS-002	Misc. Flammables	-	Flammables locker	Three lockers in good condition.	Low
BB329-01DM	BB329	OCB-001	Misc. Hazardous Materials & POL's	MCIEAST-MCB Camp Lejeune, CENSECFOR LS	HM locker with integral sump	None.	Low
BB329-02DM	BB329	OCB-001	Misc. Hazardous Materials & POL's	MCIEAST-MCB Camp Lejeune, CENSECFOR LS	HM locker with integral sump	None.	Low
BB329-03DM	BB329	OCB-001	Misc. Hazardous Materials & POL's	MCIEAST-MCB Camp Lejeune, CENSECFOR LS	HM locker with integral sump	None.	Low

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MCB Camp Lejeune



Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
BB329-04DM	BB329	OCB-001	Misc. Hazardous Materials & POL's	MCIEAST-MCB Camp Lejeune, CENSECFOR LS	HM locker with integral sump	None.	Low
SBB331-01DM	BB329	OCB-001	Misc. Hazardous Materials & POL's	MCIEAST-MCB Camp Lejeune, CENSECFOR LS	HM locker with integral sump	None.	Low
BB360-01DM	BB360	OCB-016	POL's	2d Marine Division, 2d CEB	Spill pallets	Plastic HM container, covered with spill pallets.	Low
FC100-05DM	FC100	OFC-012	POL's	-	Covered area with curbing	Large quantity of 55-gal drums stored with no spill pallets (curbing only provides limited quantity of secondary containment).	Medium
A-FC-SFC145-CL00075	FC120	OFC-012	POL's	2d Marine Logistics Group, CLB-6	Covered area with curbing	None.	Low

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MCB Camp Lejeune



Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
FC120-05DM	FC120	OFC-012	POL's	2d Marine Logistics Group, CLB-6	HM building with sump	None.	Low
FC201-05DM & A-FC-SFC223-CL00029	FC200	OFC-008	POL's	2d Marine Logistics Group, 8th ESB	Covered area with slope to sump	Multiple 55-gal drums stored without secondary containment; however, the floor is sloped to the back of the covered area, which ends in a collection sump. So likely not an issue (see pics).	Low
FC230-03DP	FC230	OFC-003	POL's	II Marine Expeditionary Force, 8th Comm. Bn.	Covered area with curbing	Spill kit onsite.	Low
SF230A-01	FC230	OFC-003	POL's (used)	II Marine Expeditionary Force, 8th Comm. Bn.	Lockers with sumps	One SAA locker was missing a door. Containment sump was dry.	Low
FC241-06DP & FC241-08DM	FC241	OFC-003	POL's	II Marine Expeditionary Force, 2nd Radio Bn.	Covered/curbed storage area	None.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
FC251-01DM	FC251	OFC-003	POL's	2d Marine Logistics Group, 8th ESB	Covered area with concrete curb	Spill kit present.	Low
FC255-05DM	FC255	OFC-003	POL's	2d Marine Logistics Group, 8th ESB	Concrete curb	None.	Low
FC255-06DM	FC255	OFC-003	POL's	2d Marine Logistics Group, 8th ESB	Concrete curb	None.	Low
SFC238-01	FC255	OFC-003	POL's (used)	2d Marine Logistics Group, 8th ESB	Concrete curbing and PIV discharge	None.	Low
FC263-05DM & A-FC-SFC233-CL00032	FC263	OFC-003	POL's	2d Marine Logistics Group, CLB-8	Covered area with curbing	None.	Low

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MCB Camp Lejeune



Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
FC263-06DM & A-FC-SFC234-CL00032	FC263	OFC-003	POL's	2d Marine Logistics Group, CLB-8	Covered area with curbing	None.	Low
FC270-06DM & A-FC-SFC279-CL00028	FC270	OFC-009	POL's	2d Marine Logistics Group, 2d Maint. Bn.	Covered area with berm	None.	Low
FC270-07DM	FC270	OFC-009	POL's	2d Marine Logistics Group, 2d Maint. Bn.	HM building with sump	None.	Low
FC270-08DM	FC270	OFC-009	Corrosives	2d Marine Logistics Group, 2d Maint. Bn.	HM building with sump	None.	Low
SFC282-01	FC280	OFC-008	POL's (used)	2d Marine Logistics Group, 2d Maint. Bn.	Covered area with concrete curbing	None.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
SFC282-01DM	FC280	OFC-008	Misc. Hazardous Material Drums	2d Marine Logistics Group, 2d Maint. Bn.	Covered area with concrete curb	None.	Low
SFC283-01	FC280	OFC-008	POL's (used)	2d Marine Logistics Group, 2d Maint. Bn.	Covered area with concrete curbing	None.	Low
SFC283-01DM	FC280	OFC-008	Misc. Hazardous Material Drums	2d Marine Logistics Group, 2d Maint. Bn.	Covered area with concrete curb	None.	Low
FC285-01DP	FC285	OFC-006	POL's	2d Marine Logistics Group, 2d Maint. Bn.	Plastic housing with containment	No spill kit nearby (spill kit located inside building).	Low
SFC284-01DM	FC285	OFC-006	POL's / Misc. HM Drums	2d Marine Logistics Group, 2d Maint. Bn.	Covered area with concrete curbing	Spill kit onsite.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
SFC284-01DM	FC285	OFC-006	POL's / Misc. HM Drums	2d Marine Logistics Group, 2d Maint. Bn.	Covered area with concrete curbing	None.	Low
A-FC-FC344-ML2MB	FC286	OFC-008	Misc. Hazardous Materials	2d Marine Logistics Group, 2d Maint. Bn.	Permanent building	None.	Low
SFC290-01DM	FC286	OFC-008	Misc. Hazardous Materials (Paints & POL's)	2d Marine Logistics Group, 2d Maint. Bn.	Covered area with concrete curbing	Spill kit onsite.	Low
FC356-01DM	FC356	OFC-003	POL's	II Marine Expeditionary Force, 8th Comm. Bn.	Covered & enclosed area	None.	Low
A-FC-FC376-CL00030	FC375	OFC-026	POL's	2d Marine Logistics Group, CLB-2	Storage building	None.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
SFC37-01DP / A-FC-SFC37-CL00041	FC40	OFC-006	POL's	-	Covered area with curbing	None.	Low
FC441-01DM	FC436	OFC-002	Misc. Flammables	MCIEAST-MCB Camp Lejeune, G-F, P/W	3 Flammables lockers	None.	Low
A-FC-SFC46-CL00036	FC45	OFC-006	POL's	2d Marine Logistics Group, 2d Med. Bn.	Covered area with concrete curbing	Spill kit onsite.	Low
FC45-02DM	FC45	OFC-006	Fuel cannisters	2d Marine Logistics Group, 2d Med. Bn.	Covered area with temp. containment	Spill kit onsite.	Low
FC57-01DM	FC57	OFC-027	POL's	2d Marine Logistics Group, 2d Supply Bn.	HM locker w/ integral sump	None.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
G485-002	G485	OTC-002B	Misc. Flammables	MCIEAST-MCB Camp Lejeune, IIF	Flammables locker	Locker in good condition.	Low
G773-01DM	G773	OTC-004	POL's	MCIEAST-MCB Camp Lejeune, SOL-E	HM locker with integral sump	HM locker in good condition.	Low
G773-01DP	G773	OTC-004	POL's	MCIEAST-MCB Camp Lejeune, SOL-E	Covered area with concrete berm	HM area well kept and in good condition.	Low
G773-02DM	G773	OTC-004	POL's	MCIEAST-MCB Camp Lejeune, SOL-E	Flammables locker	Flammables locker in good condition.	Low
G865-01DM	G865	OTC-005	Misc. Flammables	MCIEAST-MCB Camp Lejeune, SOL-E	Flammables lockers	Multiple flammables lockers in good condition. Located under permanent cover.	Low
HP100-06DP	HP100	OHP-021	POL's	2d Marine Division, 1-8	Covered area w/ concrete berm	HM area in good condition. Spill kit located onsite.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
HP104-01DM	HP104	OHP-021	Misc. Flammables	2d Marine Division, 1-8	Flammables locker	None.	Low
HP104-02DM	HP104	OHP-021	Misc. Flammables	-	Flammables locker	None.	Low
HP104-03DM	HP104	OHP-021	Gasoline	2d Marine Division, 1-8	HM cabinet with integral sump	None.	Low
HP237-01DM	HP237	OHP-018	Gas cannisters	2d Marine Division, 1-6	Temporary spill berm	Uncovered storage of gas cannisters with temporary spill berm used for secondary containment. The berm was 40% full of rainwater, suggesting that this area is not inspected and drained daily.	Medium
HP237-02DM	HP237	OHP-018	POL's	2d Marine Division, 1-6	Permanent HM building	Permanent building, fully enclosed.	Low
HP250-04DP-W	HP250	OHP-019	POL's	N/A (inactive)	HM locker w/ integral sump	Facility is currently undergoing renovations and is inactive.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
HP250-05DP	HP250	OHP-019	POL's	N/A (inactive)	Covered area with curbing	Facility is currently undergoing renovations and is inactive.	Low
M287-01DM	M287	OCJ-003	Misc. Flammables	-	Flammables lockers	Two flammables lockers in good condition.	Low
M90A-001	M90	OCJ-001	POL's	MCCSSS	Covered area with concrete curbing	POL's stored under permanent cover with concrete curb containment. Drums were also stored on spill pallets.	Low
NH100-01DM	NH100	ONH-002	Misc. Flammables	Naval Hospital	Flammables locker	Flammables locker in good condition.	Low
NH118-01DM	NH118	ONH-001	POL's / Misc. HM	Naval Hospital	HM locker with integral sump	HM locker in good condition with spill kit located onsite.	Low
NH118-02DM	NH118	ONH-001	POL's / Misc. HM	Naval Hospital	HM locker with integral sump	HM locker in good condition with spill kit located onsite.	Low

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Outdoor Hazardous Material / Hazardous Waste Management Areas

Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
NH118-03DM	NH118	ONH-001	POL's / Misc. HM	Naval Hospital	HM locker with integral sump	HM locker in good condition with spill kit located onsite.	Low
NH118-04DM	NH118	ONH-001	POL's / Misc. HM	Naval Hospital	HM locker with integral sump	HM locker in good condition with spill kit located onsite.	Low
RR121-01DM	RR121	ORR-013	POL's	-	HM locker w/ integral sump	None.	Low
RR121-02DM	RR121	ORR-013	POL's	-	Covered area w/ spill pallets	HM located in recessed area at SW corner of building. One 55-gal drum labeled as "non-hazardous" liquid waste stored outside with no cover or secondary containment.	Medium
C-RR-RR62-CL00088	RR13	ORR-014	Misc. Hazardous Materials	MCIEAST-MCB Camp Lejeune, WTBN-E	Permanent HM building & HM locker	None.	Low
RR425-01DM	RR425	ORR-012	Misc. Hazardous Materials	Marine Special Operations Command, MRSG	HM locker with integral sump	Good overall condition.	Low

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Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
RR425-02DM	RR425	ORR-012	Misc. Flammables	Marine Special Operations Command, MRSG	Flammables locker	Good overall condition.	Low
RR425-03DM	RR425	ORR-012	Misc. Hazardous Materials	Marine Special Operations Command, MRSG	HM locker with integral sump	Good overall condition.	Low
RR425-04DM	RR425	ORR-012	Misc. Hazardous Materials	Marine Special Operations Command, MRSG	HM locker with integral sump	Good overall condition.	Low
RR430-01DM	RR430	ORR-012	Misc. Hazardous Materials	Marine Special Operations Command, MRSG	HM locker with integral sump	Good overall condition.	Low
RR430-02DM	RR430	ORR-012	Misc. Hazardous Materials	Marine Special Operations Command, MRSG	HM locker with integral sump	Good overall condition.	Low

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Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
RR430-03DM	RR430	ORR-012	Misc. Hazardous Materials	Marine Special Operations Command, MRSG	HM locker with integral sump	Good overall condition.	Low
RR465-01DM	RR465	ORR-012	Misc. Flammables	Marine Special Operations Command, MRSG	Flammables Locker	Good overall condition.	Low
RR465-02DM	RR465	ORR-012	Misc. Flammables	Marine Special Operations Command, MRSG	Flammables Locker	Good overall condition.	Low
RR465-03DM	RR465	ORR-012	Misc. Flammables	Marine Special Operations Command, MRSG	Flammables Locker	Good overall condition.	Low
RR465-04DM	RR465	ORR-012	Misc. Flammables	Marine Special Operations Command, MRSG	Flammables Locker	Good overall condition.	Low

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Feature ID	Building No.	Outfall No.	Hazardous Material	Responsible Unit	Containment Type	Comments	Pollution Potential
RR480-01DM	RR480	ORR-012	Misc. Hazardous Materials	Marine Special Operations Command, MRTC	Flammables locker	Stored under covered area.	Low
SR72-01DM	SR72	OSR-001	POL's	Reserve Training Center	HM locker with integral sump	HM locker in good condition.	Low
TC562-01DM	TC562	OTC-003	Misc. Hazardous Materials	MCIEAST-MCB Camp Lejeune, SOI-E	HM locker with integral sump	None.	Low
TC562-02DM	TC562	OTC-003	Misc. Hazardous Materials	MCIEAST-MCB Camp Lejeune, SOI-E	Flammables locker	None.	Low
WC200-01DM	WC200	OWC-002	Misc. Flammables	-	Flammables locker	None.	Low

Total Number of Records Found: 145

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
1002-01OMS	1002	OHP-045	Open Area	Wood, Scrap Metal, & Compost	Multiple large stockpiles of wood, scrap metal, & natural composting	Large outdoor material storage area with stockpiled wood, scrap metal, and natural composting (trees, roots, etc.).	Low
1012-01OMS	1012	OHP-008	Open Area	Misc.	None (see comments)	OMS currently inactive due to roadway construction occurring in the outdoor storage area.	Low
1015-01OMS	1015	OHP-008	Open Area	Misc. Metal & Wood	Misc. metal and wood products	Storage of lumber and raw metal products. Permanent cover for lumber. Storage area in good condition.	Low
1015-02OMS	1015	OHP-008	Open Area	Equipment/Vehicles	Multiple Government vehicles (15+)	Outdoor vehicle storage area was in good condition with no signs of POL leaks/stains.	Low
1023-01OMS	1023	OHP-008	Open Area	Generators (empty), mobile lights, vehicles, etc.	~30 generators, ~30 mobile lights, multiple high voltage vehicles	Two deficiencies noted: (1) POL stains on pavement next to transformer oil AST; and (2) one full drum of ethylene glycol stored outdoors (uncovered) with no secondary containment.	Medium

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
1038-01OMS	1038	OHP-008	Open Area	Conex Boxes	Multiple sealed Conex boxes	None.	Low
1047-01OMS	1047	OHP-043 & OHP-044	Open Area	Boats/Equipment/Vehicles	~5 boats on trailers and other government vehicles	OMS is very clean and well kept.	Low
1081-01OMS	1081	OHP-022	Open Area	Equipment/Vehicles & Misc. Metal	Multiple large stockpiles of equipment, vehicles, and misc. metal products	Outdoor storage area for DLADS. Storage area was in good overall condition.	Low
1081-02OMS	1081	OHP-022	Open Area	Equipment/Vehicles & Misc. Metal	Multiple large stockpiles of equipment, vehicles, and misc. metal products	Outdoor storage area for DLADS. Storage area was in good overall condition.	Low
1101-01OMS	1101	OHP-007	Open Area	Equipment/Vehicles	Warehouse trucks & trailers	OMS in good overall condition (no evidence of POL leaks/drips).	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
1202-01OMS	1202	OHP-006 & OHP-007	Open Area	Misc. Metal Equipment and Vehicles	Many vehicles and uncovered metal products	Many uncovered metal products observed. Consider storing metal products in covered area (as much as possible). One 55-gal drum labeled as used antifreeze stored outside with no secondary containment.	Medium
1202-02OMS	1202	OHP-006 & OHP-007	Open Area	Misc. Metal Equipment and Vehicles	Many vehicles and uncovered metal products	Many uncovered metal products observed. Consider storing metal products in covered area (as much as possible).	Low
1202-03OMS	1202	OHP-007	Open Area (fenced)	Misc. Metal & Wood Products (HVAC, Electrical)	Multiple metal & wood products stored uncovered	None.	Low
1202-04OMS	1202	OHP-006	Open Area	Equipment/Vehicles	Multiple EMI Vehicles	None.	Low
1212-01OMS	1212	OHP-008	Open Area	Misc.	Multiple sealed Conex boxes, misc. equipment, vehicles	OMS in good overall condition. Materials stored in a manner that limits exposure to stormwater.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
1301-02OMS	1301	OHP-010	Open Area (fenced)	Misc.	Multiple storage containers	All materials stored in a manner to limit exposure to stormwater.	Low
1301-12OMS	1301	OHP-006	Open Area (fenced)	Misc.	Multiple storage containers	All materials stored in a manner to limit exposure to stormwater.	Low
1311-01OMS	1311	OHP-006	Open Area	Equipment/Vehicles	Multiple vehicles and generators	OMS in good overall condition.	Low
1317-01OMS	1317	OHP-008	Open Area	Misc.	Multiple sealed Conex boxes, misc. equipment, vehicles	OMS in good overall condition. Materials stored in a manner that limits exposure to stormwater.	Low
1323-01OMS	1323	OHP-008	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	OMS in good condition. No signs of spills/leaks.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
1402-01OMS	1402	OHP-010	Open Area	Conex Boxes, Misc. Equipment	Multiple Conex boxes and trailers	Materials stored in a manner to limit exposure to stormwater.	Low
1402-02OMS	1402	OHP-006	Open Area	Conex Boxes, Misc. Equipment	Multiple Conex boxes and trailers	Materials stored in a manner to limit exposure to stormwater.	Low
1405-01OMS	1405	OHP-006	Open Area	Equipment/Vehicles	Multiple combat vehicles	AH noted a large POL leak under one vehicle stored outside. No drip pans in use at facility. Use of drip pans is recommended, with prompt repair of any leaking vehicles.	Medium
1406-01OMS	1406	OHP-006	Open Area	Equipment/Vehicles	Multiple combat vehicles & equipment	No signs of recent POL drips/leaks. Drip pans installed under each vehicle.	Low
14080-01OMS	1408	OHP-006	Open Area	Equipment/Vehicles	Multiple Gov. vehicles (including buses)	OMS in good overall condition.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
14080-02OMS	1408	OHP-006	Open Area	Equipment/Vehicles	Multiple Gov. vehicles (including buses)	OMS in good overall condition.	Low
1445-01OMS	1445	OHP-006	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	OMS in good overall condition.	Low
1450-01OMS	1450	OHP-006	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	None.	Low
1463-01OMS	1463	OHP-042	Open Area	Conex boxes and misc. warehousing supplies	Multiple Conex boxes	All materials stored inside sealed Conex boxes.	Low
1464-01OMS	1464	OHP-042	Open Area	Conex boxes and misc. warehousing supplies	Multiple Conex boxes	All materials stored inside sealed Conex boxes.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
1465-01OMS	1465	OHP-042	Open Area	Conex boxes and misc. warehousing supplies	Multiple Conex boxes	Small oil cannisters stored outdoors with no containment.	Medium
1501-01OMS	1501	OHP-006	Open Area	Plastic Storage Containers/Crates	Multiple containers/crates	No HM/HW stored outdoors in the fenced area.	Low
1506-01OMS	1506	OHP-006	Open Area	Equipment/Vehicles	Multiple combat vehicles and equipment Conex boxes	OMS in good condition.	Low
1522-01OMS	1522	OHP-006	Open Area	Equipment/Vehicles	Multiple combat vehicles & associated equipment	None.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
1710-01OMS	1710	OHP-006	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	Some small POL drips noted. Facility could improve use of drip pans (very few observed).	Low
1710-02OMS	1710	OHP-004 & OHP-006	Open Area	Equipment/Vehicles	Multiple grading vehicles & equipment	Outdoor storage area in good condition (no leaks/POL stains observed). No drip pans were in use; however, there was no need for them.	Low
1747-01OMS	1747	OHP-015	Open Area	Equipment/Vehicles	Multiple combat vehicles and equipment	Outdoor storage lot in good overall condition. Drip pans in use for most stored vehicles.	Low
1775-01OMS	1775	OHP-006	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	Some active POL leaks observed. Many vehicles had drip pans, but some were not properly placed and/or inspected/emptied.	Medium
1775-02OMS	1775	OHP-006	Open Area	Equipment/Vehicles	Multiple combat vehicles (20+) and associated equipment	Fenced storage area across street from 1775. Storage area was in good condition with no notable POL stains.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
1780-01OMS	1780	OHP-005	Open Area	Equipment/Vehicles	Multiple combat vehicles	None.	Low
1829-01OMS	1829	OHP-006	Open Area	Equipment/Vehicles	Multiple combat vehicles and equipment	AH noted several fresh POL stains with improperly placed drip pans. Increased use of drip pans is recommended.	Medium
1841-01OMS	1841	OHP-017 & OHP-038	Open Area	Equipment/Vehicles	Multiple vehicles & associated equipment	Building tenant appears to be deployed. Very few vehicles stored throughout outdoor lot.	Low
1854-01OMS	1854	OHP-003	Open Area	None (inactive)	None (inactive)	Tank battalion no longer in service. Facility currently has no tenant and is inactive.	Low
1854-02OMS	1854	OHP-004	Open Area	None (inactive)	None (inactive)	Tank battalion no longer in service. Facility currently has no tenant and is inactive.	Low
1860-01OMS	1860	OHP-001	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	Vehicle storage area in very good condition with no signs of leaks or spills. Multiple spill kits located throughout area.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
1880-01OMS	1880	OHP-001 & OHP-004	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	Multiple POL drips and stains observed throughout vehicle parking area, some very large in size. Very few drip pans in use. Consistent use of drip pans should be implemented, with prompt repair of leaking vehicles.	Medium
198-01OMS	198	OOH-008	Open Area	Boats/trailers & Equipment	Multiple boats & associated equipment	Most fueled boats are under permanent cover. Remaining stored items are uncovered.	Low
25-01OMS	25	OHP-027	Open Area	Equipment/Vehicles	Government vehicles and equipment	A portion of the outdoor storage area is covered (permanent cover). No issues observed.	Low
575-01OMS	575	OHP-001	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	Many fresh POL stains observed on pavement. Recommend increased use of drip pans and prompt repair of any leaking vehicles. Also noted a vehicle that suffered major burn damage that was stored on pavement. Recommend disposal of vehicle.	Medium
575-02OMS	575	OHP-001 & OHP-014	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	Many fresh POL stains observed on pavement. Recommend increased use of drip pans and prompt repair of any leaking vehicles.	Medium

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
901-01OMS	901	OHP-012 & OHP-013	Open Area	Equipment/Vehicles	Multiple vehicles, equipment, and sealed Conex boxes	Vehicle storage area was in good condition with no signs of recent POL leaks/stains.	Low
902-01OMS	902	OHP-012	Open Area	Misc.	Multiple sealed Conex boxes and misc. metal/wood products	None.	Low
904-01OMS	904	OHP-013	Open Area	Misc.	Multiple sealed Conex boxes	None.	Low
905-01OMS	905	OHP-008	Open Area	Misc.	Multiple sealed Conex boxes	None.	Low
906-01OMS	906	OHP-008	Open Area	Vehicles, Storage Bins, Misc. Metal	Multiple bins and vehicles	No HM/HW stored outdoors.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
914-01OMS	914	OHP-011	Storage Bin (Closed)	Conex boxes	Several sealed Conex boxes	None.	Low
914-02OMS	914	OHP-011	Storage Bin (Closed)	Misc. Crates/Containers	Several sealed crates/containers	None.	Low
915-01OMS	915	OHP-008	Open Area	Conex boxes and misc. metal	Multiple Conex boxes (sealed)	None.	Low
916-01OMS	916	OHP-008	Open Area	Conex boxes and misc. metal	Various Conex boxes (sealed)	Located at south side of building.	Low
916-02OMS	916	OHP-008	Open Area	Conex boxes and misc. metal	Various Conex boxes (sealed)	Located at north side of building.	Low
977-01OMS	977	OHP-012	Open Area	Equipment/Vehicles	Multiple EMD work vehicles	Good housekeeping with no notable signs of POL drips/leaks.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
977-02OMS	977	OHP-012	Open Area	Misc.	Various old ASTs (empty) & plastic containers	Good housekeeping with no observed issues.	Low
977-03OMS	977	OHP-012	Open Area	Misc.	Various rinsed 55-gal drums (empty) and EMD boats/trailers	Good housekeeping with no observed issues.	Low
1022-01OMS	978	OLF-001	Open Area	Empty Dumpsters & Conex Boxes	Multiple empty dumpsters and sealed Conex boxes	Storage area for empty dumpsters and Conex boxes. Outdoor area was in good condition.	Low
978-01OMS	978	OLF-001	Open Area	Equipment/Vehicles	Multiple government vehicles	Outdoor area was in good condition.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
982-01OMS	982	OLF-001	Open Area	Empty Dumpsters & Landfill Vehicles	Multiple empty dumpsters for use base-wide, plus some garbage trucks	Storage area for empty dumpsters (for use base-wide) and some landfill trucks (garbage collection trucks, etc.). Outdoor area was in good condition.	Low
S93-01OMS	982	OLF-001	Open Area	Landfill Vehicles & Stockpiled Soil	Multiple landfill/garbage trucks	Storage area for landfill trucks (garbage collection trucks, etc.) and stockpiled soil/fill material and gravel. Outdoor area was in good condition.	Low
989-01OMS	989	OFC-013	Open Area	Medical containers & Misc. metal	Multiple medical equipment containers	None.	Low
A47-01OMS	A47	OAB-001	Open Area	Equipment/Vehicles	Multiple tracked vehicles and equipment	Some small/minor POL leaks/stains observed. Recommend drip pans be deployed more frequently.	Low
A47-02OMS	A47	OAB-006	Open Area	Equipment/Vehicles	Multiple tracked vehicles and equipment	Area in good overall condition.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
A47-03OMS	A47	OAB-002	Open Area	Equipment/Vehicles	Multiple tracked vehicles and equipment	Area in good overall condition.	Low
A66-01OMS	A66	OAB-007	Open Area	Equipment/Vehicles	Multiple combat vehicles, several boats on trailers, & sealed Conex boxes	Outdoor storage area in good overall condition. No signs of any POL drips/leaks. Good housekeeping implemented throughout area.	Low
A71-01OMS	A71	OAB-007	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	AH observed several fresh, large POL stains on the pavement throughout the outdoor material storage area. Increased use of drip pans and prompt repair of leaking vehicles is recommended.	Medium
AS118-01OMS	AS118	OAS-005 & OAS-032	Open Area	Equipment/Vehicles	Multiple fuel trucks and various government vehicles	OMS in good overall condition with no signs of leaks or spills. Spill kit located inside maintenance bays.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
AS122-01OMS	AS122	OAS-005 & OAS-032	Open Area	Equipment/Vehicles	Multiple base maintenance vehicles/equipment, plus stockpiled soil & gravel	Outdoor storage area in good overall condition.	Low
AS122-02OMS	AS122	OAS-005	Open Area	Equipment/Vehicles	Multiple base maintenance vehicles/equipment	Outdoor storage area in good overall condition.	Low
AS2820-01OMS	AS2820	OAS-001	Open Area	Boats, trailers, & equipment	Multiple boats and trailers (fenced lot)	All boats were stored under permanent cover. Good housekeeping observed.	Low
AS3534-01OMS	AS3534	OAS-014	Open Area	Equipment/Vehicles	Multiple combat vehicles & associated equipment	Outdoor storage area in good overall condition.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
AS3905-01OMS	AS3905	OAS-005 & OAS-018	Open Area	Equipment/Vehicles/Aircraft	Multiple sealed Conex boxes, misc. equipment & flight line support vehicles, & aircraft	Front side of hangar is used to store a large quantity of equipment and storage containers. Multiple POL stains observed near fuel carts & support vehicles. Better housekeeping and use of drip pans is needed.	Medium
AS4081-01OMS	AS4081	OAS-005	Open Area	Equipment	Multiple metal storage containers	Outdoor storage area in good condition.	Low
AS4085-01OMS	AS4085	OAS-005	Open Area	Equipment	Multiple metal and wood containers and misc. equipment	Outdoor storage area in good condition. No storage of POL/HM/HW.	Low
AS4085-02OMS	AS4085	OAS-005	Open Area	Equipment	Multiple metal and wood containers and misc. equipment	Outdoor storage area in good condition. No storage of POL/HM/HW.	Low
AS4100-01OMS	AS4100	OAS-018	Open Area	Aircraft	Aircraft (15+)	Outdoor aircraft storage area in good condition.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
AS4100-02OMS	AS4100	OAS-005	Open Area	Equipment/Vehicles	Multiple vehicles/equipment & Conex boxes	Many small POL stains observed by flight line support vehicle/equipment and fuel carts.	Medium
AS4100-03OMS	AS4100	OAS-005	Open Area	Equipment/Vehicles	Multiple vehicles/equipment & Conex boxes	Outdoor storage area in good condition. Most equipment in this area is stored under permanent cover.	Low
AS4106-01OMS	AS4106	OAS-018	Open Area	Equipment/Vehicles/Aircraft	Multiple aircraft (15+), and equipment/vehicles stored at side of hangar	Outdoor aircraft/equipment storage area was in good condition.	Low
AS4106-02OMS	AS4106	OAS-005	Open Area	Equipment/Vehicles/Aircraft	Multiple sealed Conex boxes (30+)	Outdoor storage area in good condition.	Low
AS4108-0-1OMS	AS4108	OAS-005 & OAS-018	Open Area	Equipment/Vehicles/Aircraft	Multiple aircraft (15+), misc. equipment/vehicles, & Conex boxes	Outdoor storage area was very well-kept and in good overall condition.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
AS4109-01OMS	AS4109	OAS-005	Open Area	Equipment/Vehicles/Aircraft	Multiple sealed Conex boxes, helicopters, and flight line support vehicles/equipment	Outdoor storage area was in good condition with good housekeeping practices implemented throughout.	Low
AS4135-01OMS	AS4135	OAS-005	Open Area	Equipment/Vehicles	N/A (see comments)	Facility is undergoing renovations, and no tenant is occupying the facility. Therefore, only construction materials/equipment were being stored during the inspection.	Low
AS4146-01OMS	AS4146	OAS-005	Open Area	Equipment/Vehicles	Multiple flightline GSE equipment/vehicles	Outdoor storage area in very good condition. Facility is very well kept with good housekeeping. Multiple spill kits located throughout the site.	Low
AS4158-01OMS	AS4158	OAS-004	Open Area	Equipment/Vehicles	Multiple combat vehicles & associated equipment	Outdoor material storage area in fair condition. Area is dirt/gravel, so some erosion issues were noted.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
AS4158-02OMS	AS4158	OAS-004	Open Area	Equipment/Vehicles	Multiple combat vehicles & associated equipment	Outdoor material storage area in good condition. Tanker trucks stored within curbed area that drains to containment basin.	Low
AS4188-01OMS	AS4188	OAS-005	Open Area	Equipment Trailers & Sealed Conex Boxes	Multiple trailers and Conex boxes	Outdoor storage area was well kept and in very good condition. No outdoor storage of POL/HM/HW.	Low
AS4192-01OMS	AS4192	OAS-006	Open Area	Misc. Conex Boxes	Multiple sealed Conex boxes & Misc. equipment	Outdoor material storage area in good condition.	Low
AS424-01OMS	AS424	OAS-030	Open Area	Misc.	Multiple storage containers and Conex boxes	Outdoor storage area at west side of the building was in good condition.	Low
AS508-01OMS	AS508	OAS-021	Open Area	Aircraft	Multiple aircraft (15+)	Outdoor aircraft storage area was in good condition. No signs of POL leaks/spills.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
AS508-02OMS	AS508	OAS-021	Open Area	Equipment/Vehicles	Sealed Conex boxes & flightline support vehicles/equipment	Outdoor storage area was in good condition. Good housekeeping observed throughout.	Low
AS515-01OMS	AS515	OAS-018	Open Area	Equipment/Vehicles	Multiple sealed Conex boxes and misc. equipment	Outdoor storage area in good condition.	Low
AS518-01OMS	AS518	OAS-005 & OAS-018	Open Area	Aircraft	Open area for aircraft storage (15+)	Outdoor aircraft storage area in good overall condition.	Low
AS518-02OMS	AS518	OAS-005 & OAS-018	Open Area	Equipment	Multiple sealed Conex boxes, etc.	Outdoor storage area in good overall condition.	Low
AS541-01OMS	AS541	OAS-030	Open Area	Equipment/Storage Crates	Multiple wood & metal containers and pallets	Outdoor storage area for wood and metal containers and pallets. No deficiencies observed.	Low

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Outdoor Material Storage Areas

Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
AS840-01OMS	AS840	OAS-002	Open Area	Equipment/Vehicles	Multiple flammables lockers, ASTs, and flight line support vehicles	Covered area in good overall condition.	Low
AS890-01OMS	AS890	OAS-008	Open Area	Equipment/Vehicles	Multiple flight line support vehicles and sealed Conex boxes	Outdoor storage area was in good condition with good housekeeping practices implemented throughout.	Low
AS890-02OMS	AS890	OAS-001 & OAS-008	Open Area	Multiple V-22s	Outdoor storage area for V-22 Ospreys (15+)	Outdoor storage area was in good condition with good housekeeping practices implemented throughout.	Low
BB329-01OMS	BB329	OCB-001	Open Area	Equipment/Vehicles	Boats, Trailers, Vehicles, and Misc. Equipment	Outdoor material storage area in excellent condition with good housekeeping throughout.	Low
BB329-02OMS	BB329	OCB-013	Open Area	Equipment/Vehicles	Boats, Trailers, Vehicles, and Misc. Equipment	Outdoor material storage area in excellent condition with good housekeeping throughout.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
BB329-03OMS	BB329	OCB-001	Open Area	Equipment/Vehicles	Government Vehicles	Outdoor material storage area in excellent condition with good housekeeping throughout.	Low
BB360-01OMS	BB360	OCB-016	Open Area	Equipment/Vehicles	Multiple combat vehicles & equipment	Overall, the vehicle storage area was in good condition; however, there were some moderate POL leaks/stains observed. Some of the drip pans were also full of rainwater and should have been emptied.	Low
BB51-01OMS	BB51	OCB-001 & OCB-013	Open Area	Equipment/Vehicles	Multiple vehicles and trailer-mounted equipment	None.	Low
ES101-01OMS	ES101	OFC-008 & OFC-009	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	None.	Low
FC100-01OMS	FC100	OFC-012	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	None.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
FC120-01OMS	FC120	OFC-012	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	Good housekeeping.	Low
FC143-01OMS	FC143	OFC-009	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	None.	Low
FC200-01OMS	FC200	OFC-008	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	Vehicle leaking antifreeze observed (needs to be moved to indoor maintenance area). Drip pan in use, but drip pan was mostly full.	Medium
FC211-01OMS	FC211	OFC-009	Open Area	None (inactive)	Facility inactive - no materials stored outdoors.	Facility inactive - no materials stored outdoors.	Low
FC230-01OMS	FC230	OFC-003	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	No drip pans observed, but no active leaks were present.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
FC241-02OMS	FC241	OFC-003	Storage Locker	POL	Multiple 55-gal drums	None.	Low
FRC241-01OMS	FC241	OFC-003	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	Some small POL leaks observed - minor deficiency.	Low
FC251-01OMS	FC251	OFC-003	Open Area	Generators & Trailers	Multiple portable generators and trailers	Good housekeeping observed.	Low
FC255-01OMS	FC255	OFC-003 & OFC-005	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	Multiple leaking vehicles observed with no drip pans. Also, many fresh & old POL stains on pavement.	Medium
FC263-01OMS	FC263	OFC-003	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	Active antifreeze leak observed and several other fresh POL stains observed.	Medium

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
FC270-01OMS	FC270	OFC-009	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	None.	Low
FC280-01OMS	FC280	OFC-008	Open Area	Equipment/Vehicles, Misc. Metals	Multiple vehicles and associated equipment	None.	Low
FC281-01OMS	FC281	OFC-008	Open Area	Metal & Misc. Equipment		None.	Low
FC285-01OMS	FC285	OFC-006	Open Area	Equipment/Vehicles, Misc. Metals	Multiple vehicles and associated equipment	None.	Low
FC286-01OMS	FC286	OFC-008	Open Area	Equipment/Vehicles & Misc. Metals	Multiple vehicles and associated equipment	None.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
FC286-02OMS	FC286	OFC-008	Open Area	Equipment/Vehicles & Misc. Metals	Multiple vehicles and associated equipment	None.	Low
FC356-01OMS	FC356	OFC-003 & OFC-018	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	Good housekeeping throughout.	Low
FC375-01OMS	FC375	OFC-026	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	None.	Low
FC40-01OMS	FC40	OFC-006	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	No signs of POL leaks/drips.	Low
FC441-01OMS	FC436	OFC-002	Open Area	Equipment/Vehicles	Misc. treatment process equipment	None.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
FC443-01OMS	FC436	OFC-001	Open Area	Equipment/Vehicles & Treatment Chemicals	Multiple vehicles/equipment & totes/drums of treatment chemicals	Drums of liquid polymer & totes of liquid carbon source (sugar water) stored outdoors/uncovered with no secondary containment.	Low
FC444-01OMS	FC436	OFC-001	Open Area	Equipment/Vehicles	Treatment plant equipment and vehicles	None.	Low
FC45-01OMS	FC45	OFC-006	Open Area	Equipment/Vehicles	Multiple vehicles and associated equipment	Some large POL stains observed in outdoor vehicle storage area; however, facility had deployed drip pans for a majority of stored vehicles. Additionally, no active leaks were observed.	Low
FC57-01OMS	FC57	OFC-027	Open Area	Equipment/Vehicles	Multiple combat vehicles	Outdoor storage area in good condition with no signs of POL leaks/spills.	Low
G485-01OMS	G485	OTC-002B	Open Area	Wood/Plastic Pallets	Multiple stacks of pallets	OMS in good overall condition.	Low

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Outdoor Material Storage Areas

Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
G773-01OMS	G773	OTC-004	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	OMS in good overall condition with good housekeeping practices implemented throughout.	Low
G865-01OMS	G865	OTC-005	Open Area	Equipment/Misc. Metal/Wood Products	Various wood and metal products & containers	Outdoor storage area in good condition.	Low
HP100-01OMS	HP100	OHP-021	Open Area	Equipment/Vehicles	Multiple combat vehicles (20+)	Facility was deployed during site inspection, so very few vehicles stored at time of inspection.	Low
HP1017-01OMS	HP1017	OHP-008	Open Area	Equipment/Vehicles	Multiple Government vehicles & empty vending machines (20+)	Outdoor storage area in good condition. No deficiencies observed.	Low
HP104-01OMS	HP104	OHP-021	Open Area	Equipment/Vehicles	Multiple combat vehicles & sealed Conex boxes	Some small POL stains observed; however, no active leaks observed. Housekeeping could be improved around dumpsters and Conex box storage area.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
HP232-01OMS	HP232	OHP-018	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	Multiple moderate size POL stains observed on pavement. General housekeeping could also be improved at back of building (adjacent to ASTs). However, drip pans were in use for almost all vehicles.	Medium
HP237-01OMS	HP237	OHP-018	Open Area	Equipment/Vehicles	Multiple combat vehicles and sealed Conex boxes	Several large POL stains observed under vehicles. Drip pans not being monitored/emptied properly.	Medium
HP250-01OMS	HP250	OHP-019	Open Area	Equipment/Vehicles (currently inactive)	OMS is currently empty/inactive	Facility is currently undergoing renovations and is inactive.	Low
M107-01OMS	M107	OCJ-004	Open Area	Equipment/Vehicles	Multiple combat vehicles	No signs of leaks or spills. Some sandbags stored next to M107D that were partially torn. Suggest disposing of broken sandbags and spilled sand.	Low
M287-01OMS	M287	OCJ-003	Open Area	Wood	Multiple wood pallets and other misc. wood products	None.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
M90-01OMS	M90	OCJ-001	Open Area	Equipment/Vehicles	Multiple combat vehicles	Vehicle storage area in good condition. No signs of POL leaks/drips, and drip pans were in use for most vehicles.	Low
NH118-01OMS	NH118	ONH-001	Open Area	Equipment/Vehicles	Multiple hospital vehicles and associated equipment	Outdoor storage area in good condition. Good housekeeping practices observed throughout area.	Low
RR121-01OMS	RR121	ORR-013	Open Area	Equipment/Vehicles	Multiple vehicles	None.	Low
RR13-01OMS	RR13	ORR-014	Open Area	Wood	Multiple pallets of lumber	Small quantity of lumber stored outdoors (uncovered). No deficiencies identified.	Low
RR149-01OMS	RR149	ORR-003	Open Area	Wood Targets	Many wood targets	Wood targets stored outdoors. No storage of HM/HW/POL.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
RR425-01OMS	RR425	ORR-012	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	OMS in good overall condition.	Low
RR425-02OMS	RR425	ORR-012	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	Some housekeeping issues observed. Also, several large POL stains observed throughout vehicle parking area.	Medium
RR430-01OMS	RR430	ORR-012	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	Two major deficiencies observed: (1) open 55-gal drums of used fuel stored outside with no secondary containment (at far NE corner of lot); and (2) several large POL stains observed.	High
RR430-02OMS	RR430	ORR-012	Open Area	Equipment/Vehicles	Multiple combat vehicles and associated equipment	Three major deficiencies observed: (1) several actively leaking vehicles observed with overflowing drip pans (also many POL stains observed); (2) poor housekeeping; & (3) surcharging SS manhole (reported to PWD).	High
RR465-01OMS	RR465	ORR-012	Open Area	Misc. Warehousing Storage Boxes & Equipment	Multiple enclosed containers	OMS in good overall condition.	Low

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Outdoor Material Storage Areas

Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
RR480-01OMS	RR480	ORR-012	Open Area	Wood, Concrete, Bricks, Misc. Metal	Multiple pallets of target building supplies	Most target building materials stored under cover.	Low
RR480-02OMS	RR480	ORR-012	Open Area	Wood	Lumber for target building	Small amounts of lumber stored outside fenced area.	Low
SR72-01OMS	SR72	OSR-001	Open Area	Equipment/Vehicles	Several combat/government vehicles	Outdoor storage area, partially covered with permanent cover, in good overall condition.	Low
TC562-01OMS	TC562	OTC-003	Open Area	Misc. (wood & concrete blocks)	3 Conex boxes	None.	Low
WC177-01OMS	WC177	OWC-003	Open Area	Misc. Warehouse Items	Multiple storage crates	Two deficiencies observed: (1) poor housekeeping observed throughout outdoor storage area - open containers and trash observed on ground; and (2) one 55-gal drum of engine oil stored outside (uncovered) with no secondary containment.	High

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Outdoor Material Storage Areas

Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
WC178-01OMS	WC178	OWC-003	Open Area	Misc. Warehouse Items	Multiple storage crates	Many storage crates stored outside in a manner that limits exposure to stormwater. No deficiencies identified.	Low
WC200-01OMS	WC200	OWC-001 & OWC-002	Open Area	Equipment/Vehicles	Multiple combat vehicles & associated equipment	Many leaking vehicles observed, some without drip pans and others with overflowing drip pans. Increased inspections recommended with prompt repair of any leaking vehicles.	High
WC200-02OMS	WC200	OWC-001 & OWC-002	Open Area	Equipment/Vehicles	Multiple combat vehicles & associated equipment	Vehicles stored in this area were in much better condition compared to WC200-01OMS (no drips/leaks observed). Most vehicles were furnished with drip pans.	Low
WC501-01OMS	WC501	OWC-004	Open Area	Equipment/Vehicles	Multiple combat vehicles, associated equipment, and misc. metal products	Outdoor storage area was very clean with good housekeeping practices implemented throughout the area.	Low

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Feature ID	Building No.	Outfall No.	Storage Type	Material Stored	Approximate Quantity	Comments	Pollution Potential
WC501-02OMS	WC501	OWC-004	Open Area	Equipment/Vehicles	Multiple combat vehicles, associated equipment, and misc. metal products	Outdoor storage area was very clean with good housekeeping practices implemented throughout the area.	Low
WC501-03OMS	WC501	OWC-004	Open Area	Equipment/Vehicles	Multiple combat vehicles, associated equipment, and misc. metal products	Outdoor storage area was very clean with good housekeeping practices implemented throughout the area.	Low
WC501-04OMS	WC501	OWC-004	Open Area	Equipment/Vehicles	Multiple combat vehicles, associated equipment, and misc. metal products	Outdoor storage area was very clean with good housekeeping practices implemented throughout the area.	Low
WC512-01OMS	WC512	OWC-005	Open Area	Equipment/Vehicles	Multiple combat vehicles	None.	Low

Total Number of Records Found: 170

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Outdoor Liquid Transfer Areas

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Outdoor Liquid Transfer Areas

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Feature ID	Building No.	Outfall No.	Transfer Operation	Liquid Transferred	Maximum Spill Quantity	Secondary Containment Type	Comments	Pollution Potential
1070-01LT	1070	OHP-012	Bulk Fuel Transfer	Jet Fuel, MOGAS, & Kerosene	5000	Curbing & OWS	Curbed area discharges to an OWS/containment basin. Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
1070-02LT	1070	OHP-012	Bulk Fuel Transfer	Jet Fuel, MOGAS, & Kerosene	5000	Curbing & OWS	Curbed area discharges to an OWS/containment basin. Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
1070-03LT	1070	OHP-012	Bulk Fuel Transfer	Diesel Fuel, Bio-Diesel, & MOGAS	5000	Curbing & OWS	Curbed area discharges to an OWS/containment basin. Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
1070-04LT	1070	OHP-012	Fuel Dispensing	Diesel Fuel, Bio-Diesel, & MOGAS	200	Curbing & OWS	Curbed area discharges to an OWS/containment basin. Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low
198-01LT	198	OOH-008	Fuel Dispensing	Gasoline	200	None	Containment not possible due to location over water on wood dock. Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low

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Feature ID	Building No.	Outfall No.	Transfer Operation	Liquid Transferred	Maximum Spill Quantity	Secondary Containment Type	Comments	Pollution Potential
977-01LT	977	OHP-012	HM/HW Transfer	POL	5000	Curbing	Liquid transfer area contained within concrete curbing (with controlled stormwater release via PIV). Max potential spill quantity is based on tanker truck capacity (5,000 gallons is estimated).	Low
977-02LT	977	OHP-012	HM/HW Transfer	POL	5000	Curbing	Liquid transfer area contained within concrete curbing (with controlled stormwater release via PIV). Max potential spill quantity is based on tanker truck capacity (5,000 gallons is estimated).	Low
AS140-01LT	AS143	OAS-005	Bulk Fuel Transfer	Jet Fuel	5000	Curbing & Containment Basin	Liquid transfer area clean and in good condition. Spill kit onsite. Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
AS143-01LT	AS143	OAS-005	Bulk Fuel Transfer	MOGAS	5000	Curbing & Containment Basin	Transfer area clean and in good condition. Spill kit onsite. Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
AS143-02LT	AS143	OAS-005	Fuel Dispensing	MOGAS	200	None	Transfer area clean and in good condition. Spill kit onsite. Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low

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Feature ID	Building No.	Outfall No.	Transfer Operation	Liquid Transferred	Maximum Spill Quantity	Secondary Containment Type	Comments	Pollution Potential
AS146-01LT	AS143	OAS-005	Bulk Fuel Transfer	Jet Fuel	5000	Curbing & Containment Basin	Liquid transfer area clean and in good condition. Spill kit onsite. Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
AS2800-01LT	AS2800	OAS-037	Fuel Dispensing	Gasoline	200	None	Spill kit located next to dispenser. No spill containment provided. Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low
AS3517-01LT	AS3517	OAS-014	Bulk Fuel Transfer	JP-5 Fuel & Used Oil	5000	Curbing with Containment Basin	Liquid transfer area discharges to a containment basin that discharges to the adjacent OWS via a manual PIV. Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
AS4146-01LT	AS4146	OAS-005	Fuel Dispensing	Diesel Fuel	200	None	No means for spill containment provided at fuel dispensing area. AH noted some leaked diesel fuel and a sheen on the pavement in the fuel dispensing location (better housekeeping required). Maximum potential spill quantity is less than 200 gallons.	Medium

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Feature ID	Building No.	Outfall No.	Transfer Operation	Liquid Transferred	Maximum Spill Quantity	Secondary Containment Type	Comments	Pollution Potential
AS4159-01LT	AS4158	OAS-004	Bulk Fuel Transfer	JP-8 Fuel	5000	Curbing & Containment Basin	Fuel transfer area discharges to containment basin. Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
AS498-01LT	AS498	OAS-018	Fuel Dispensing	Various Aircraft Fuels	200	Oil-Water Separator	Aircraft rapid refueling area was in good condition. Potential spills are from rapid refueling equipment only. Maximum potential spill quantity is less than 200 gallons.	Low
AS511-01LT	AS511	OAS-018	Fuel Dispensing	Various Aircraft Fuels	200	Oil-Water Separator	Aircraft rapid refueling area was in good condition. Potential spills are from rapid refueling equipment only. Maximum potential spill quantity is less than 200 gallons.	Low
CONT160-01LT	CONT160	OFC-004	Bulk Fuel Transfer	Gasoline, Diesel, & Jet Fuel	5000	Curbing & OWS	Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
CONT160-02LT	CONT160	OFC-004	Fuel Dispensing	Gasoline, Diesel, & Jet Fuel	200	None	Area includes vehicle fuel dispensers. No curbing (area discharges to nearby stormwater pond). Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low

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Feature ID	Building No.	Outfall No.	Transfer Operation	Liquid Transferred	Maximum Spill Quantity	Secondary Containment Type	Comments	Pollution Potential
CONT160-03LT	CONT160	OFC-004	Fuel Dispensing	Jet Fuel	200	None	Area includes vehicle fuel dispensers. No curbing (area discharges to nearby stormwater pond). Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low
CONT161-01LT	CONT161	OCB-014	Bulk Fuel Transfer	Gasoline, Diesel, & Jet Fuel	5000	Curbing & OWS	Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
CONT161-02LT	CONT161	OCB-014	Fuel Dispensing	Gasoline & Diesel	200	None	Area includes vehicle fuel dispensers. No curbing (area discharges to nearby stormwater pond). Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low
CONT161-03LT	CONT161	OCB-014	Fuel Dispensing	Jet Fuel	200	None	Area includes vehicle fuel dispensers. No curbing (area discharges to nearby stormwater pond). Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low
CONT161-04LT	CONT161	OCB-014	Fuel Dispensing	Jet Fuel	200	None	Area includes vehicle fuel dispensers. Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low

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Feature ID	Building No.	Outfall No.	Transfer Operation	Liquid Transferred	Maximum Spill Quantity	Secondary Containment Type	Comments	Pollution Potential
CONT162-01LT	CONT162	OHP-035	Bulk Fuel Transfer	E-85 & Jet Fuel	5000	Curbing & OWS	Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
CONT162-02LT	CONT162	OHP-035	Fuel Dispensing	E-85 & Jet Fuel	200	None	Area includes vehicle fuel dispensers. No curbing (area discharges to nearby stormwater pond). Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low
FC255-01LT	FC255	OFC-003	Fuel Dispensing	Antifreeze, Oil, Diesel	200	None	No containment for transfer area. Leaks/drips on pavement.	Medium
FC436-01LT	FC436	OFC-001	Bulk Chemical Transfer	Treatment Chemicals	5000	Drainage Sump	Max potential spill quantity is based on tanker truck capacity (5,000 gallons is estimated).	Low
NH100-01LT	NH100	ONH-002	Bulk Fuel Transfer	Diesel Fuel	5000	Curbing w/ containment basin	Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low

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Feature ID	Building No.	Outfall No.	Transfer Operation	Liquid Transferred	Maximum Spill Quantity	Secondary Containment Type	Comments	Pollution Potential
RR421-01ALT	RR430	ORR-012	Fuel Dispensing	MOGAS	200	Curbing	PIV controls stormwater discharge. Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low
RR422-01ALT	RR430	ORR-012	Fuel Dispensing	JP-8 Fuel	200	Curbing	PIV controls stormwater discharge. Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low
SM192-01LT	SM192A	OCJ-001	Bulk Fuel Transfer	Jet Fuel & MOGAS	5000	Containment Basin	Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
SM192-02LT	SM192A	OCJ-001	Fuel Dispensing	Jet Fuel & MOGAS	200	Containment Basin	Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low
SR72-01LT	SR72	OSR-001	Fuel Dispensing	JP-8 Fuel	200	Curbing	Liquid transfer area in good condition. Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low

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Outdoor Liquid Transfer Areas

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Feature ID	Building No.	Outfall No.	Transfer Operation	Liquid Transferred	Maximum Spill Quantity	Secondary Containment Type	Comments	Pollution Potential
TC366-01LT	TC366	OTC-003	Bulk Fuel Transfer	E-85, MOGAS, Diesel, Jet Fuel, Bio-Diesel	5000	Curbing & Oil-Water Separator	Max potential spill quantity is based on fuel tanker truck capacity (5,000 gallons is estimated).	Low
TC366-02LT	TC366	OTC-003	Fuel Dispensing	E-85, MOGAS, Diesel, Jet Fuel, Bio-Diesel	200	Curbing & Oil-Water Separator	Potential spills are from dispensing equipment only. Maximum potential spill quantity is less than 200 gallons.	Low

Total Number of Records Found: 36

APPENDIX H

Oil/Water Separators

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Oil/Water Separators

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
S1048	1047	OHP-043 & OHP-044	Boat Washing/Maintenance	Sanitary Sewer	Active	New OWS in good overall condition.	Low
S928	1070	OHP-012	Fuel Transfer / Fuel Truck Storage	Sanitary Sewer	Active	None.	Low
S968	1070	OHP-012	Fuel Transfer / Fuel Truck Storage	Sanitary Sewer	Active	None.	Low
S969B	1070	OHP-012	Fuel Transfer / Fuel Truck Storage	Sanitary Sewer	Active	None.	Low
S1217	1205/1206	OHP-008	Vehicle Washing	Sanitary; Bypass to Storm	Active	None.	Low
S1330	1323	OHP-008	Vehicle Washing & Repair	Sanitary Sewer	Active	None.	Low

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Oil/Water Separators

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
S1420	1405	OHP-006	Vehicle Washing	Sanitary; Bypass to Storm	Active	Grit chamber (i.e., wash rack catch basin) was full of sediment and vegetation - requires cleanout. Stormwater bypass structure and OWS were in good condition.	Low
S1424	1408	OHP-006	Vehicle Washing	Sanitary; Bypass to Storm	Active	Grit chamber almost completely filled with sediment (outlet to OWS not visible). Some vegetative growth observed inside stormwater bypass structure.	Medium
S1428	1450	OHP-006	Vehicle Washing	Sanitary Sewer	Inactive	OWS inactive	Low
S1450	1450	OHP-006	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low
S1456	1450	OHP-006	Vehicle Washing	Sanitary Sewer	Active	Grit chamber full of vegetation.	Low
S1464A	1464	OHP-042	Warehouse Floor Drains	Sanitary Sewer	Active	None.	Low

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Oil/Water Separators

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
S1465A	1464	OHP-042	Warehouse Floor Drains	Sanitary Sewer	Active	None.	Low
S1470A	1470	OHP-006	Equipment/Vehicle Repair	Sanitary Sewer	Inactive	1470 is currently vacant; therefore, this OWS is classified as inactive. The OWS was in good condition.	Low
S1511	1502	OHP-006	Equipment/Vehicle Repair	Sanitary Sewer	Active	OWS in good condition.	Low
S1520	1506	OHP-006	Equipment/Vehicle Washing	Sanitary; Bypass to Storm	Active	OWS in good condition. No vegetative growth or oil/sediment accumulation observed.	Low
S1522A	1522	OHP-006	Vehicle Washing	Sanitary Sewer	Active	AH noted an open, overturned 55-gal POL drum on top of wash rack catch basin (assumed for drum rinsing), POL stains observed at the same catch basin, and additional drums with no secondary containment stored at wash rack.	Medium
S1522B	1522	OHP-006	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low

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MCB Camp Lejeune



Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
S1600	1601	OHP-006	Floor Drains	Sanitary Sewer	Active	This OWS receives very infrequent inflow (if any).	Low
S1745	1710	OHP-006	Vehicle Washing	Sanitary; Bypass to Storm	Active	Stormwater bypass will need cleanout soon.	Low
S1755	1747	OHP-015	Equipment/Vehicle Repair & Washing	Sanitary Sewer	Active	None.	Low
S1968	1775	OHP-006	Vehicle Washing	Sanitary; Bypass to Storm	Active	Excessive sediment in stormwater bypass structure. No flow can enter the OWS, causing all flow (including wash water) to be bypassed to the stormwater system. Some erosion around OWS also observed.	High
S1768	1780	OHP-005	Vehicle Washing	Sanitary Sewer	Active	None.	Low
S1782	1780	OHP-005	Vehicle Parking Area	Storm Sewer	Active	Treats surface runoff from parking area only.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
S1831	1829	OHP-006	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low
S1959	1829	OHP-006	Vehicle Washing	Sanitary; Bypass to Storm	Active	AH noted two deficiencies: (1) washing overspray was observed outside wash rack and entering nearby stormwater catch basin; and (2) the stormwater bypass weir appears to be too low, resulting in some flow bypassing to storm even with a very small flow.	Medium
S1847B	1841	OHP-038	Vehicle Washing	Sanitary Sewer	Active	Grit chamber requires sediment/vegetation cleanout.	Low
S1854	1854	OHP-004	Equipment/Vehicle Repair & Washing	Sanitary Sewer	Inactive	Tank battalion no longer in service. Facility currently has no tenant and is inactive.	Low
S1874	1854	OHP-017	Vehicle Washing	Sanitary Sewer	Inactive	Tank battalion no longer in service. Facility currently has no tenant and is inactive.	Low
S1820	1860	OHP-001	Vehicle Washing & Maintenance	Sanitary Sewer	Active	OWS in good condition.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
S1860	1880	OHP-004	Vehicle Washing	Sanitary; Bypass to Storm	Active	OWS effluent pumps were inoperable. All wastewater is currently exiting the stormwater bypass instead of entering the OWS.	Medium
S25H	25	OHP-027	Vehicle Washing	Sanitary; Bypass to Storm	Active	None.	Low
S566	575	OHP-001	Equipment/Vehicle Repair & Washing	Sanitary Sewer	Active	Moderate accumulation of oil noted inside the wash rack grit chamber. Not an issue, but recommend cleanout of grit chamber.	Low
S739	902	OHP-012	Vehicle Washing	Sanitary Sewer	Inactive	Some trash/debris inside OWS and grit chamber. System appears to be inactive.	Low
S948	977	OHP-012	HM/HW liquid transfer & storage areas	Sanitary; Bypass to Storm	Active	A moderate accumulation of oil observed inside OWS; however, this system experiences heavy oil loading. Oil skimmer is used to transfer surface oil to a dedicated AST.	Low
S93	982	OLF-001	Vehicle Washing	Sanitary Sewer	Active	Manual wash rack, automatic wash rack, and bermed storage area all drain to OWS. The OWS contained a significant sediment accumulation in the outlet side of the OWS.	Medium

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SA40	A47	OAB-006	Vehicle Washing	Sanitary Sewer	Active	Effluent pumps were pulled out of OWS, forcing all flow through the high-level stormwater bypass. The contributing wash rack area was roped off (inactive); however, oil collected in the OWS could be discharged to CHB. Leaking water main also observed.	Medium
SA40 (Vortechnics 2)	A47	OAB-006	Stormwater Treatment	Storm Sewer	Active	Provides treatment of stormwater runoff.	Low
SA40 (Vortechnics 3)	A47	OAB-002	Stormwater Treatment	Storm Sewer	Active	Provides treatment of stormwater runoff.	Low
SA42	A47	OAB-001	Vehicle Washing	Sanitary Sewer	Active	OWS requires cleanout (excessive oil & debris/trash observed on water surface).	Medium
SA42 (Vortechnics 1)	A47	OAB-001	Stormwater Treatment	Storm Sewer	Active	Provides treatment of stormwater runoff.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SA47	A47	OAB-006	Equipment/Vehicle Repair	Sanitary Sewer	Active	Receives flow from interior maintenance bay floor drains.	Low
SA103	A66	OAB-007	Equipment/Vehicle Repair & Washing	Sanitary; Bypass to Storm	Active	OWS in good overall condition. Appears to be used infrequently.	Low
SA104	A71	OAB-007	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low
SA105	A71	OAB-007	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low
SA106	A71	OAB-007	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SAS99	AS118	OAS-032	Equipment/Vehicle Repair	Sanitary Sewer	Active	Notable amount of oil noted inside OWS. Facility personnel need to be educated with respect to OWS influent sources and the fact that the vehicle storage area discharges to stormwater system instead of OWS (drainage via PIV). Signage recommended.	Medium
SAS128	AS122	OAS-032	Soil & Vehicle Storage Area	Sanitary Sewer	Active	OWS in good condition.	Low
SAS138	AS143	OAS-005	Fuel Transfer	Storm Sewer	Active	Containment basin for fuel transfer - discharges to stormwater via manual PIV. Basin in good condition.	Low
SAS145B	AS143	OAS-005	None (abandoned)	Sanitary Sewer	Inactive	OWS is no longer in service.	Low
SAS147	AS143	OAS-005	Fuel Truck Storage	Storm Sewer	Active	Containment basin for fuel truck storage area - discharges to stormwater via manual PIV. Basin in good condition.	Low
SAS159	AS143	OAS-005	Fuel Transfer	Storm Sewer	Active	Containment basin for fuel transfer - discharges to stormwater via manual PIV. Basin in good condition.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SAS2820	AS2820	OAS-001	Boat Repair	Sanitary Sewer	Active	OWS in good condition.	Low
SAS3503	AS3517	OAS-014	Fuel Transfer	Sanitary; Bypass to Storm	Active	OWS contains a heavy oil accumulation and requires cleaning.	Low
SAS3905-1	AS3905	OAS-005	Aircraft Repair	Sanitary Sewer	Active	OWS requires cleanout (notable oil accumulation observed inside separator).	Low
SAS3905-2	AS3905	OAS-005	Aircraft Repair	Sanitary Sewer	Active	OWS full of oil and trash/debris - requires cleanout.	Medium
SAS3908	AS3905	OAS-005	Aircraft Washing	Sanitary; Bypass to Storm	Active	Wash rack is not currently active - washing area currently occupied by temporary trailers (offices). However, the effluent pumps are inoperable, causing bypass to storm. OWS also full of oil.	Medium
SAS4100	AS4100	OAS-005	Aircraft Repair	Sanitary; Bypass to Storm	Active	OWS in good condition.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SAS4105	AS4106	OAS-005	Aircraft Washing	Sanitary; Bypass to Storm	Active	OWS in good condition. Effluent pumps were operational.	Low
SAS4106	AS4106	OAS-005	Aircraft Repair	Sanitary Sewer	Active	OWS in good condition. Receives flow from hangar floor drains.	Low
SAS4109S	AS4109	OAS-005	Aircraft Washing & Repair	Sanitary; Bypass to Storm	Active	OWS serves aircraft wash rack and interior hangar floor drains. The automatic valve serving the wash rack appears to be inoperable (did not automatically divert water to the OWS when yard hydrants were opened). This means all wash water is sent to storm.	Medium
SAS4136	AS4135	OAS-005	Equipment/Vehicle Repair & Washing	Sanitary; Bypass to Storm	Active	OWS was in good condition with only a small amount of surface oil inside the separator.	Low
SAS4146	AS4146	OAS-005	Equipment/Vehicle Repair & Washing	Sanitary Sewer	Active	Moderate oil accumulation inside OWS.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SAS4159	AS4158	OAS-004	Equipment/Vehicle Repair	Sanitary Sewer	Active	OWS was recently cleaned.	Low
SAS4194	AS4158	OAS-004	Vehicle Washing	Sanitary Sewer	Active	Large quantity of accumulated sediment observed throughout grit chamber, OWS, and wash rack. Entire system needs cleaning.	Medium
SAS4198	AS4158	OAS-004	Tanker Truck Storage Area	Storm Sewer	Active	Containment basin that was recently re-routed to stormwater system (with controlled release via PIV).	Low
SAS4188	AS4188	OAS-005	Vehicle/Equipment Washing	Sanitary; Bypass to Storm	Active	OWS had some vegetative growth that should be removed.	Low
SAS480	AS480	OAS-018	Aircraft Engine Test Cell	Sanitary Sewer	Active	Influent pump station was running continuously, even though the lift station was empty and the control floats were in the off position. Lift station was also set to auto mode and should have been off.	Low
SAS592	AS480	OAS-018	Aircraft Engine Test Pad	Sanitary Sewer	Active	This OWS received flow from an outdoor, uncovered engine test pad. This pad is planned to be refurbished as an aircraft wash rack in the near future.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SAS593	AS480	OAS-018	Aircraft Engine Test Pad	Sanitary Sewer	Active	Badly leaking aircraft test engine was observed on the outdoor test pad. This engine should be repaired and the POL leak requires cleanup. A thick oil layer was observed inside the OWS as a result of the spilled fluids.	Medium
SAS488	AS488	OAS-018	Aircraft Washing	Sanitary Sewer; Bypass to Stor	Active	OWS at flightline bird wash. Unable to open bolted down manhole for interior inspection. Exterior of OWS was in good condition. Actuated valves controlling discharge route appear to need repair (both in open position).	Medium
SAS490	AS498	OAS-018	Aircraft Fueling	Storm Sewer	Active	OWS serving rapid refueler was in good overall condition. Some vegetation and sediment accumulation was observed.	Low
SAS508-1	AS508	OAS-021	Aircraft Repair	Sanitary Sewer	Active	OWS in good condition. Serves hangar floor drains.	Low
SAS508-2	AS508	OAS-021	Aircraft Repair	Sanitary Sewer	Active	OWS in good condition. Serves hangar floor drains.	Low
SAS523	AS508	OAS-021	Aircraft Washing	Sanitary Sewer	Active	OWS in good condition.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SAS491	AS511	OAS-018	Aircraft Fueling	Sanitary Sewer	Active	OWS serving rapid refueler was in good overall condition.	Low
SAS545	AS518	OAS-005	Aircraft Repair & Equipment Wash Rack	Sanitary; Bypass to Storm	Active	OWS in good condition.	Low
SAS840	AS840	OAS-003	Vehicle/Equipment Washing	Sanitary; Bypass to Storm	Active	Effluent pump was turned off and also would not operate in "hand" mode; therefore, all water is currently bypassing to the stormwater system. Wash rack does not appear to be used frequently.	Medium
SAS890S1	AS890	OAS-008	Aircraft Washing	Sanitary; Bypass to Storm	Active	Stormwater bypass valve is broken (valve stem is broken). The valve is broken in the open position, so all influent water goes through the OWS. No rainwater is bypassed. The OWS was full of sediment and oil (and some debris/trash) and requires cleanout.	Medium
SAS890S2	AS890	OAS-001	Aircraft Repair	Sanitary Sewer	Active	OWS serves maintenance hangar floor drains. System was in good condition.	Low
BB329	BB329	OCB-001	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SBB329C	BB329	OCB-001	Boat/Vehicle Washing	Sanitary Sewer	Active	None.	Low
CONT160	CONT160	OFC-004	Fuel Transfer	Storm Sewer	Active	Containment basin for liquid transfer area.	Low
CONT161	CONT161	OCB-014	Fuel Transfer	Storm Sewer	Active	Containment basin.	Low
CONT162	CONT162	OHP-035	Fuel Transfer	Storm Sewer	Active	Containment basin for liquid transfer area.	Low
SFC104	FC100	OFC-012	Vehicle Washing	Sanitary; Overflow to Storm	Active	None.	Low
SFC113	FC100	OFC-012	Vehicle Washing	Sanitary; Overflow to Storm	Active	Grit accumulation is excessive.	Medium

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SFC121	FC120	OFC-012	Equipment/Vehicle Repair & Washing	Sanitary Sewer	Active	None.	Low
SFC200-1	FC200	OFC-008	Vehicle Washing	Sanitary Sewer	Active	Excessive sediment in grit chamber/OWS. Soil stockpiled in OWS drainage area.	Medium
SFC200-2	FC200	OFC-008	Equipment/Vehicle Repair	Sanitary Sewer	Active	OWS in good condition.	Low
SFC224	FC200	OFC-008	N/A (inactive)	Storm Sewer	Inactive	OWS inactive.	Low
SFC193	FC230	OFC-003	Vehicle Washing	Sanitary Sewer	Active	Grit chambers need cleanout.	Low
SFC242	FC241	OFC-003	Vehicle Washing	Sanitary Sewer	Active	None.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SFC176	FC251	OFC-003	Equipment/Vehicle Repair & Washing	Sanitary Sewer	Active	None.	Low
SFC246	FC255	OFC-003	Equipment/Vehicle Repair & Vehicle Washing	Sanitary Sewer	Active	OWS requires cleanout (oil & foreign debris).	Medium
SFC268	FC263	OFC-003	Vehicle Washing & Repair	Sanitary Sewer	Active	None.	Low
SFC289	FC281	OFC-008	Vehicle Washing & Maintenance	Sanitary Sewer	Active	None.	Low
SFC187	FC285	OFC-006	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low
SFC351	FC286	OFC-008	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SFC352	FC286	OFC-008	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low
SFC356	FC356	OFC-003	Vehicle Washing	Sanitary Sewer	Inactive	OWS is inactive.	Low
SFC379	FC375	OFC-026	Vehicle Washing	Sanitary Sewer	Active	Observed deficiencies: (1) improper storage of multiple gas cannisters in wash rack (they were contained in a temporary berm); (2) overspray of vehicle washing into adjacent stormwater system; and (3) grit chamber requires cleanout.	Medium
SFC391	FC375	OFC-026	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low
SFC43	FC40	OFC-006	Vehicle Washing & Repair	Sanitary Sewer	Active	None.	Low
SFC47	FC45	OFC-006	Vehicle Washing & Maintenance	Sanitary Sewer	Active	Grit chamber cleanout is recommended (excessive vegetative growth observed).	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SFC60	FC57	OFC-027	Equipment/Vehicle Repair	Sanitary Sewer	Active		Low
SFC61	FC57	OFC-027	Vehicle Washing	Sanitary; Bypass to Storm	Active		Low
SG773	G773	OTC-004	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low
SG773E	G773	OTC-004	Vehicle Washing	Sanitary Sewer	Active	OWS is clogged with sediment, causing overflow of wash water to the stormwater system. This has been a recurring issue for 2 years according to facility personnel. Entire OWS system and piping needs cleaning.	High
SHP101	HP100	OHP-021	Vehicle Washing	Sanitary; Bypass to Storm	Active	Moderate sediment accumulation noted inside stormwater bypass and OWS.	Low
SHP232	HP232	OHP-018	Equipment/Vehicle Repair	Sanitary Sewer	Active	OWS in good condition.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SHP232C	HP232	OHP-018	Vehicle Washing	Sanitary Sewer	Active	OWS in good condition.	Low
SHP236	HP237	OHP-018	Equipment/Vehicle Repair	Sanitary Sewer	Active	OWS contained a lot of trash/foreign debris. Also contained a decent amount of oil.	Medium
SHP240	HP237	OHP-018	Vehicle Washing	Sanitary Sewer	Active	Some sediment accumulation noted in grit chamber.	Low
SHP246	HP250	OHP-019	Equipment/Vehicle Repair	Sanitary Sewer	Active	Facility is currently undergoing renovations and is inactive.	Low
SHP249	HP250	OHP-019	Vehicle Washing	Sanitary Sewer	Active	Facility is currently undergoing renovations and is inactive. OWS grit chamber is full of vegetation and requires cleaning.	Low
SM138	M107	OCJ-004	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SM139	M107	OCJ-004	Equipment/Vehicle Repair	Sanitary Sewer	Active	None.	Low
SH118	NH118	ONH-001	Vehicle Washing & Floor Drains	Sanitary; Bypass to Storm	Active	Stormwater diversion valve for wash rack is inoperable. Wash rack may be inactive.	Medium
SSR121A	RR121	ORR-013	Vehicle Washing	Sanitary Sewer	Active	OWS includes wash water recycling system (active).	Low
SRR73	RR13	ORR-014	Vehicle Washing	Sanitary; Bypass to Storm	Active	None.	Low
SRR425	RR425	ORR-012	Equipment/Vehicle Repair	Sanitary Sewer	Active	OWS in good condition.	Low
SRR430	RR430	ORR-012	Equipment/Vehicle Repair	Sanitary Sewer	Active	OWS in good condition.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SRR430	RR430	ORR-012	Equipment/Vehicle Repair	Sanitary Sewer	Active	OWS in good condition.	Low
SRR433	RR430	ORR-012	Vehicle Washing	Sanitary; Bypass to Storm	Active	Light to moderate oil accumulation in OWS and moderate sediment accumulation in grit chamber.	Low
SM192D	SM192A	OCJ-001	Fuel Transfer & Dispensing	Storm Sewer	Active	Containment basin for fuel transfer and dispensing activities.	Low
SSR80	SR72	OSR-001	Vehicle Washing	Sanitary; Bypass to Storm	Active	The OWS was in good condition; however, one plastic drum labeled "used fuel" and one full, unlabeled 55-gallon drum were stored next to grit chamber with no secondary containment.	Low
STC372	TC366	OTC-003	Central Fueling Station	Sanitary Sewer	Active	None.	Low
SWC200D	WC200	OWC-002	Equipment/Vehicle Repair	Sanitary Sewer	Active	Spill mats located inside OWS - removal required to prevent clogged outlet.	Low

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Feature ID	Building No.	Outfall No.	Facility Type Served	Operational Discharge Route	Device Status	Comments	Pollution Potential
SWC200E	WC200	OWC-002	Vehicle Washing	Sanitary Sewer	Active	Some sediment accumulation in grit chamber (none in OWS).	Low
SWC201B	WC200	OWC-001	Equipment/Vehicle Repair	Sanitary Sewer	Active	Unable to open for inspection (bolted down lid).	Low
SWC501	WC501	OWC-004	Equipment/Vehicle Repair	Sanitary Sewer	Active	OWS in good condition. Serves indoor maintenance area floor drains.	Low
SWC501E	WC501	OWC-004	Vehicle Storage Area	Storm Sewer	Active	OWS in good condition. Provides treatment for stormwater runoff at the south side of the facility (an area where some vehicles are parked).	Low
SWC503C	WC501	OWC-004	Vehicle Washing	Sanitary Sewer	Active	OWS in good condition. Serves vehicle wash rack at back of facility.	Low

Total Number of Records Found: 134

APPENDIX I

Prediction of Industrial Discharges

(Maintained Separate from SWPPP. Available by Request
from SWPPM)

APPENDIX J

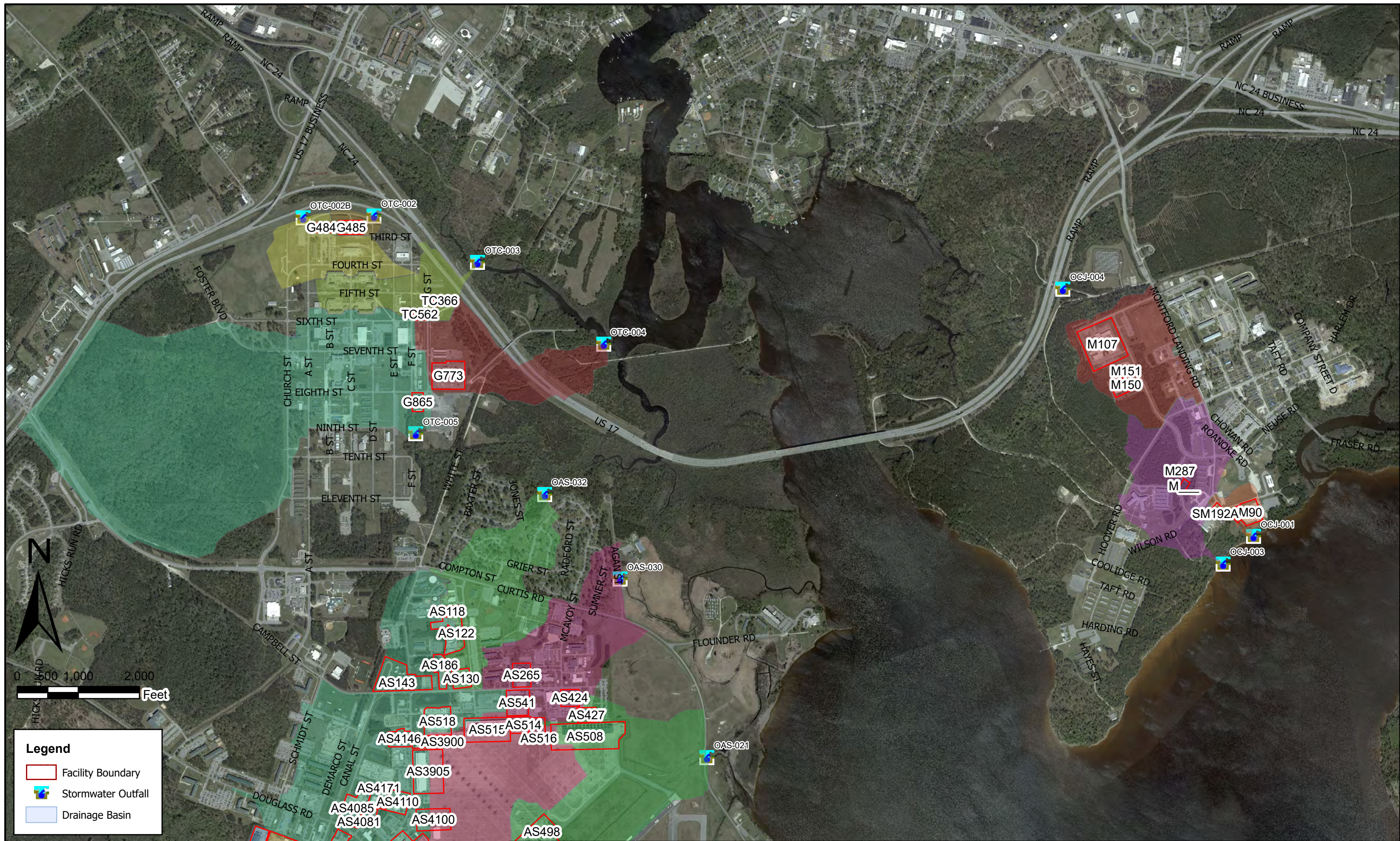
Stormwater Pollution Prevention Plan Mapping

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AS3905	J-1, J-2	J-94
AS4081	J-1, J-2	J-95
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AS4192	J-2	J-107
AS424	J-1	J-108
AS427	J-1, J-2	J-109
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AS508	J-1, J-2	J-113
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AS515	J-1, J-2	J-116
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M150	J-1	J-163
M287	J-1	J-164
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NH118	J-7	J-168
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RR13	J-8	J-170
RR149	J-8	J-171
RR425	J-9	J-172
RR430	J-9	J-173
RR465	J-9	J-174
RR480	J-9	J-175
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SR72	J-8	J-177
TC366	J-1	J-178
TC562	J-1	J-179
WC177	J-5	J-180
WC178	J-5	J-181
WC200	J-5	J-182
WC501	J-5	J-183
WC512	J-5	J-184

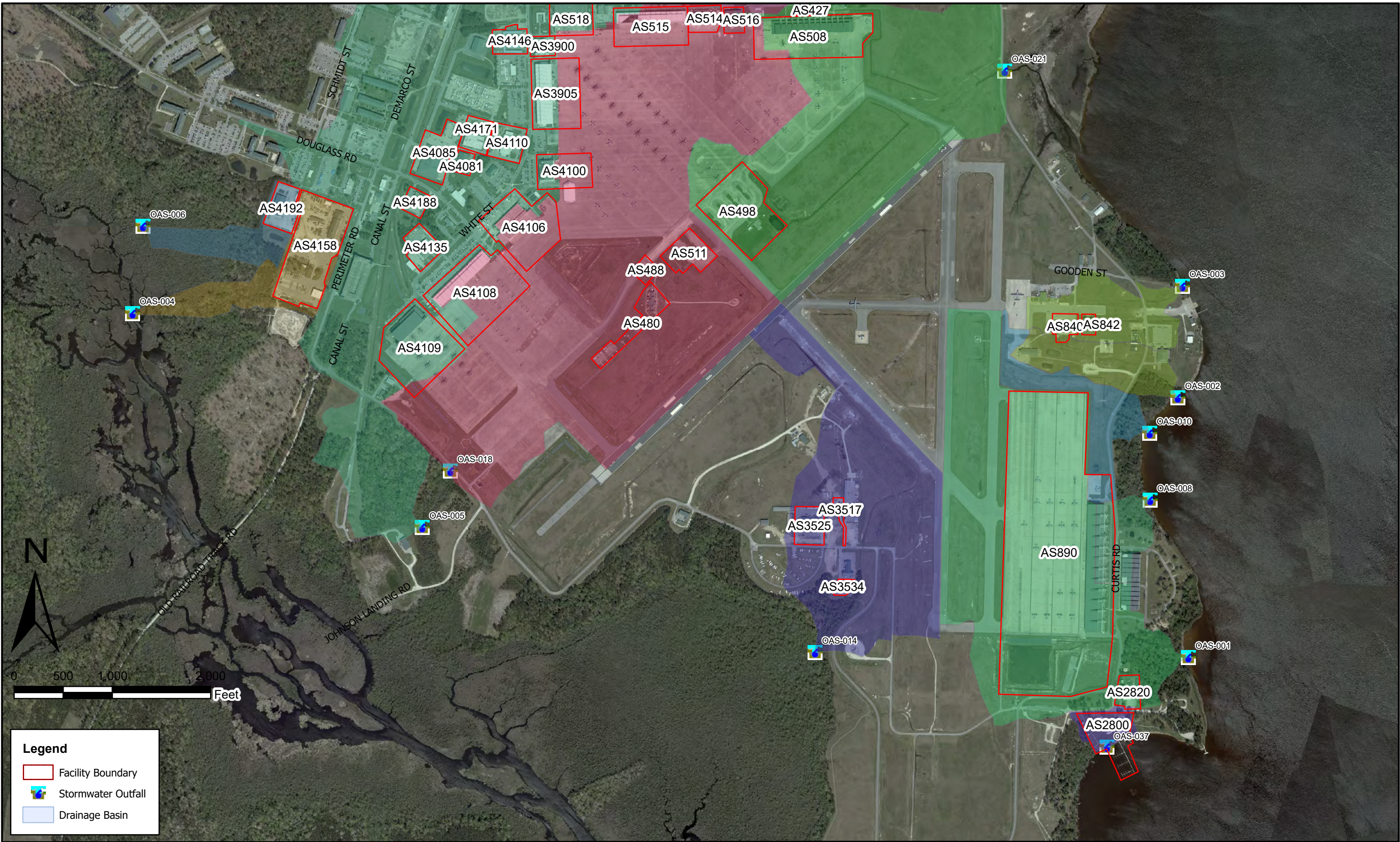


Source: AH, MCBCL, Esri
AH Project Number: 134-031
Contract Number: N62470-19-D-4001
Date: 6/9/2021
By: CJM

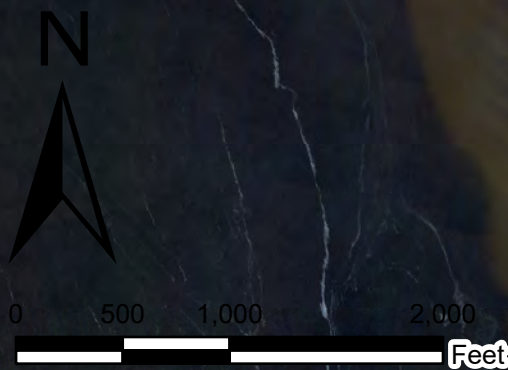
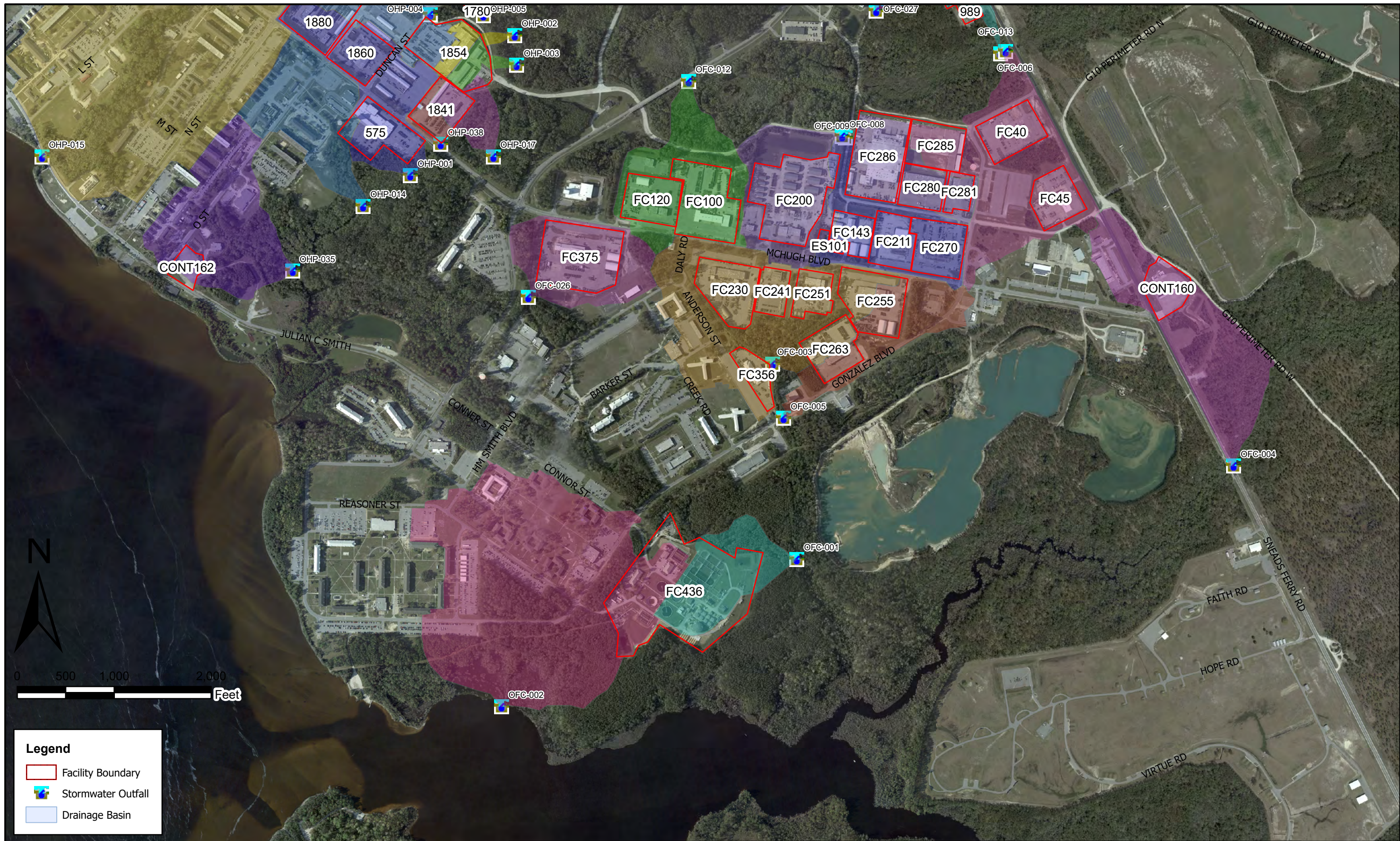


Base Area Reference Map for:
Air Station (North), Camp Geiger & Camp Johnson
Stormwater Pollution Prevention Plan
Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 1







Legend

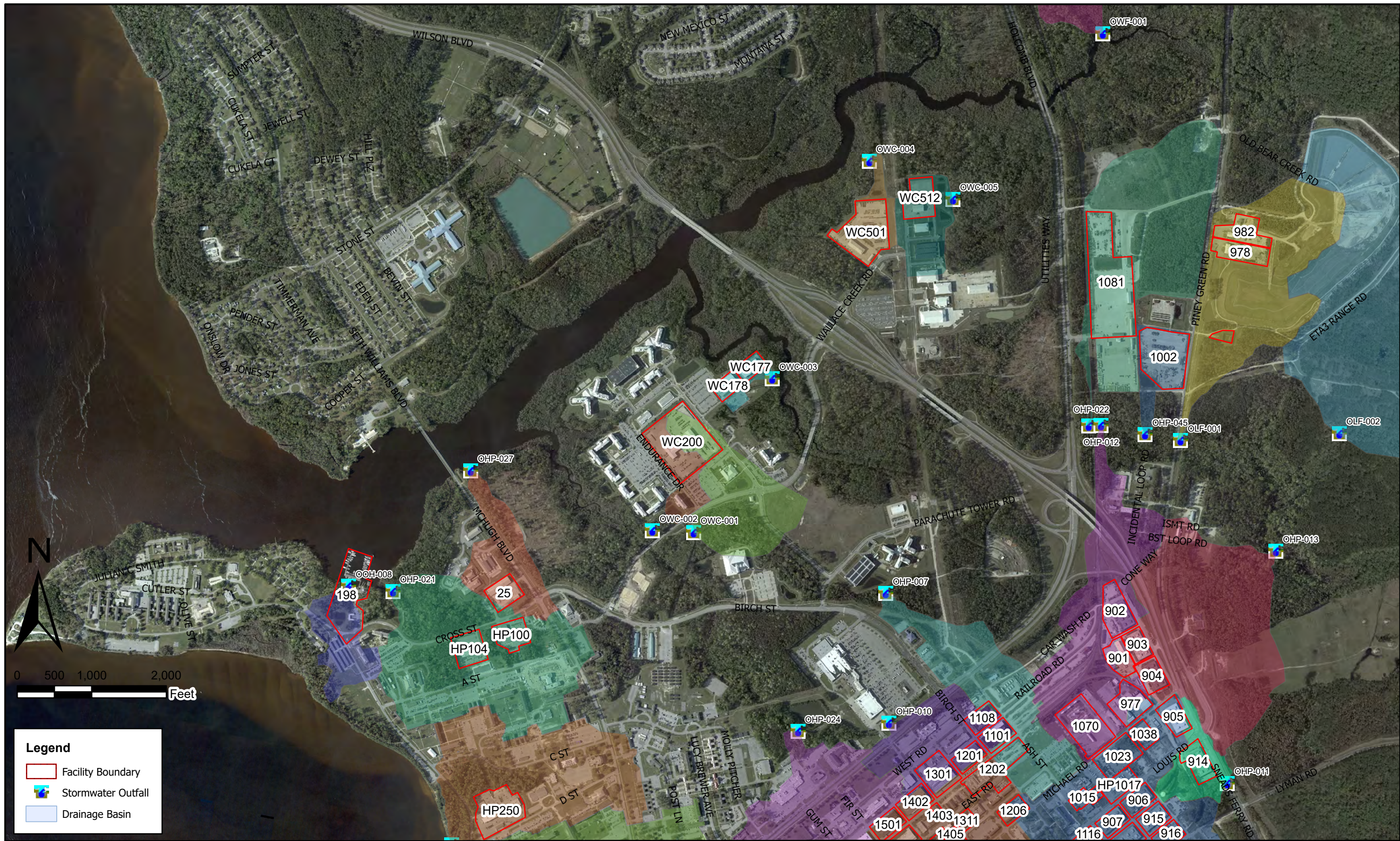
- Facility Boundary
- ❏ Stormwater Outfall
- Drainage Basin

Source: AH, MCBCL, Esri
 AH Project Number: 134-031
 Contract Number: N62470-19-D-4001
 Date: 6/9/2021
 By: CJM



Base Area Reference Map for:
 French Creek
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 4



Legend

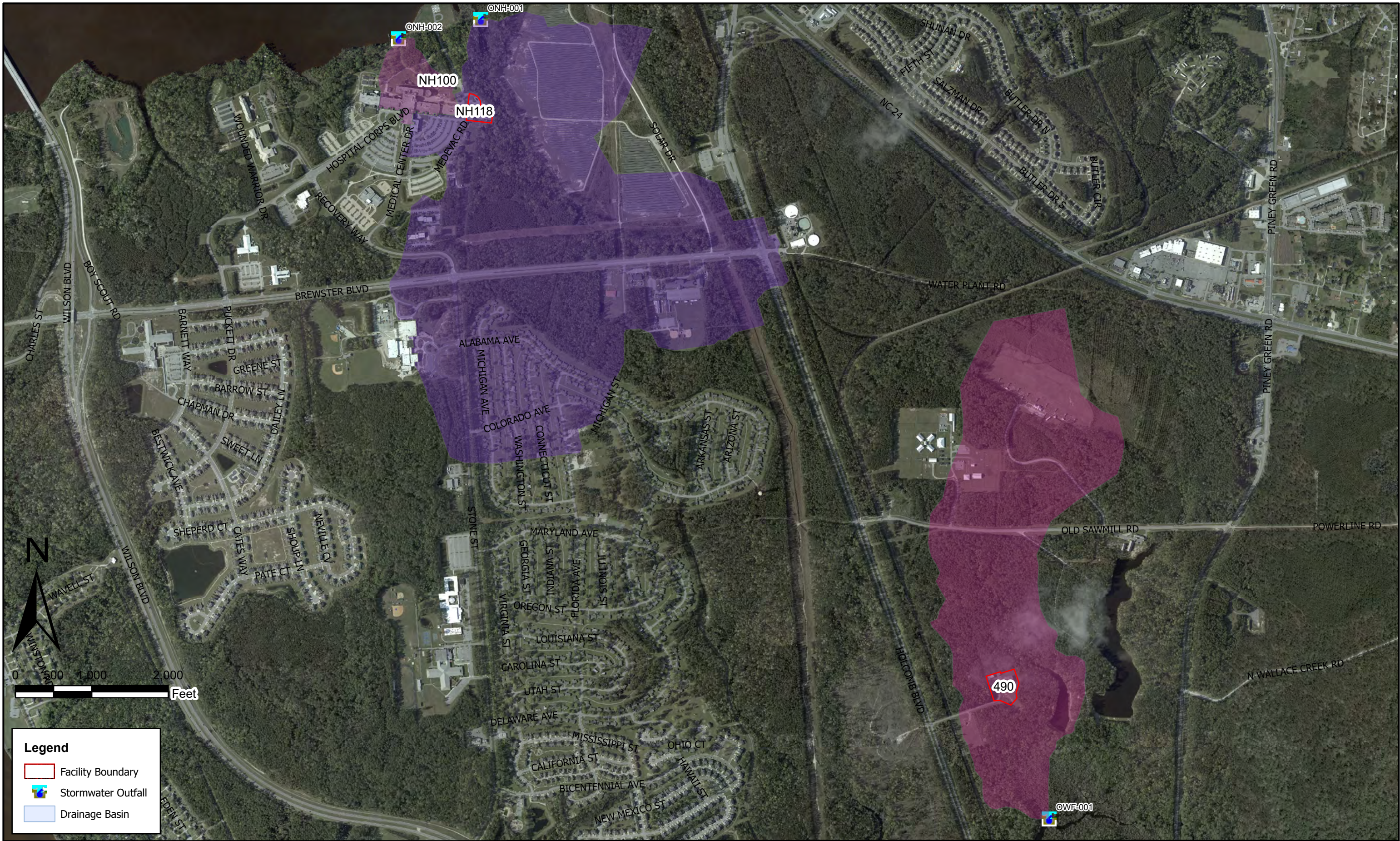
- Facility Boundary
- Stormwater Outfall
- Drainage Basin

Source: AH, MCBCL, Esri
 AH Project Number: 134-031
 Contract Number: N62470-19-D-4001
 Date: 6/9/2021
 By: CJM



Base Area Reference Map for:
 Hadnot Point (North)
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 5

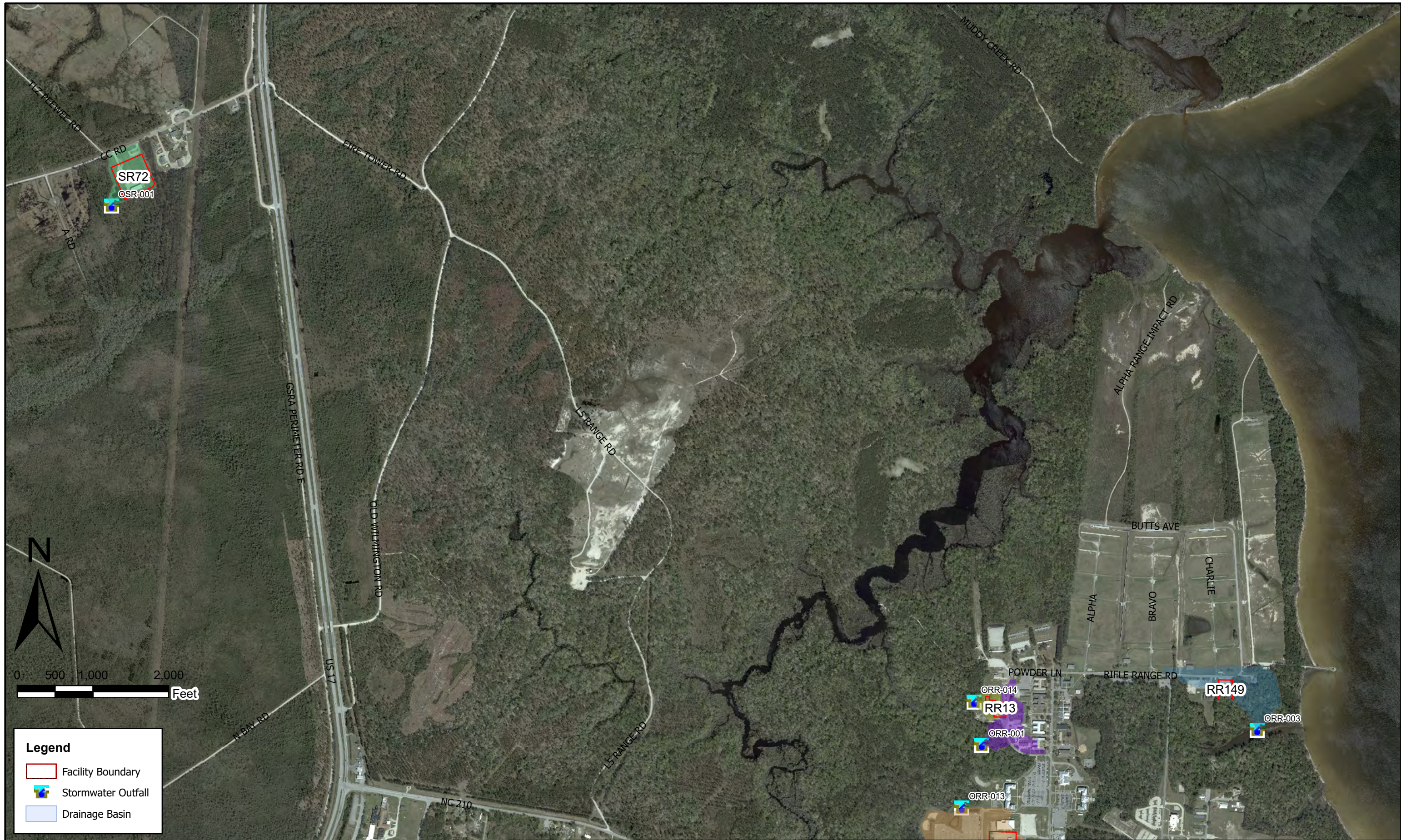


Source: AH, MCBCL, Esri
AH Project Number: 134-031
Contract Number: N62470-19-D-4001
Date: 6/9/2021
By: CJM



Base Area Reference Map for:
Hospital & DLADS
Stormwater Pollution Prevention Plan
Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 7



Source: AH, MCBCL, Esri
AH Project Number: 134-031
Contract Number: N62470-19-D-4001
Date: 6/9/2021
By: CJM



Base Area Reference Map for:
Rifle Range (North) & Sandy Run
Stormwater Pollution Prevention Plan
Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 8

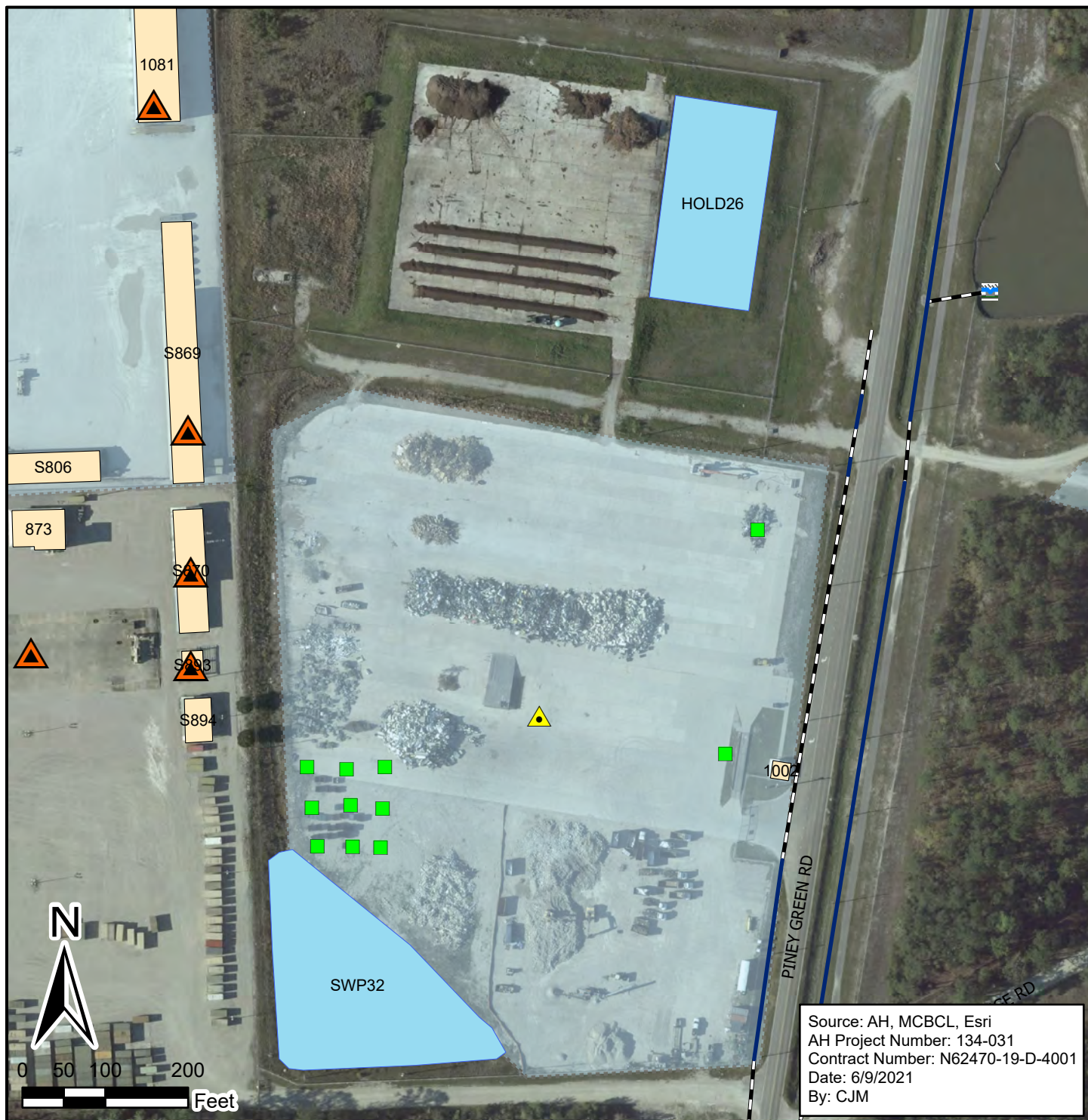


Source: AH, MCBCL, Esri
AH Project Number: 134-031
Contract Number: N62470-19-D-4001
Date: 6/9/2021
By: CJM



Base Area Reference Map for:
Rifle Range (South) & MARSOC
Stormwater Pollution Prevention Plan
Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 9



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

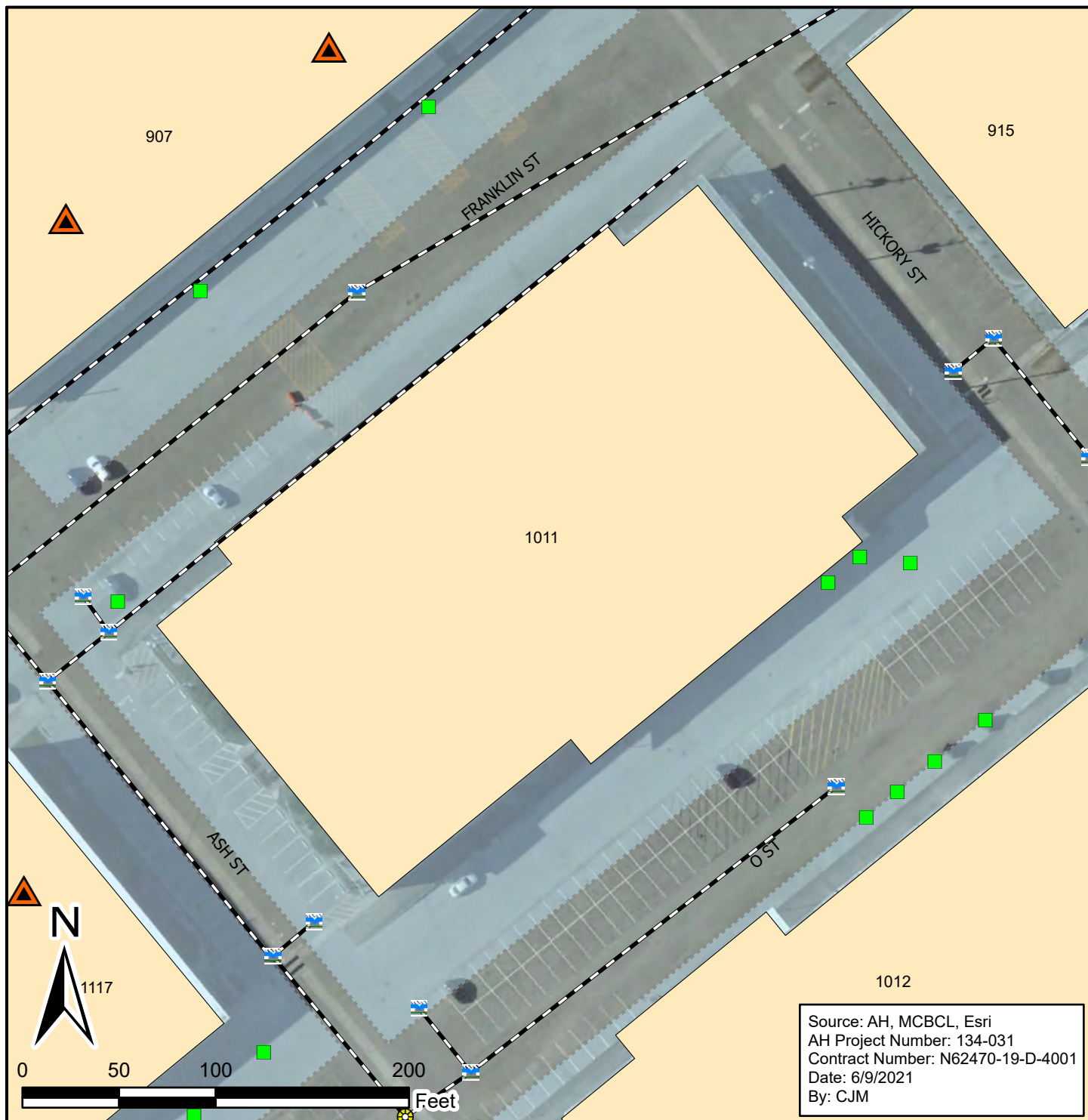


SWPPP Site Maps - Bldg. 1002

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 10



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

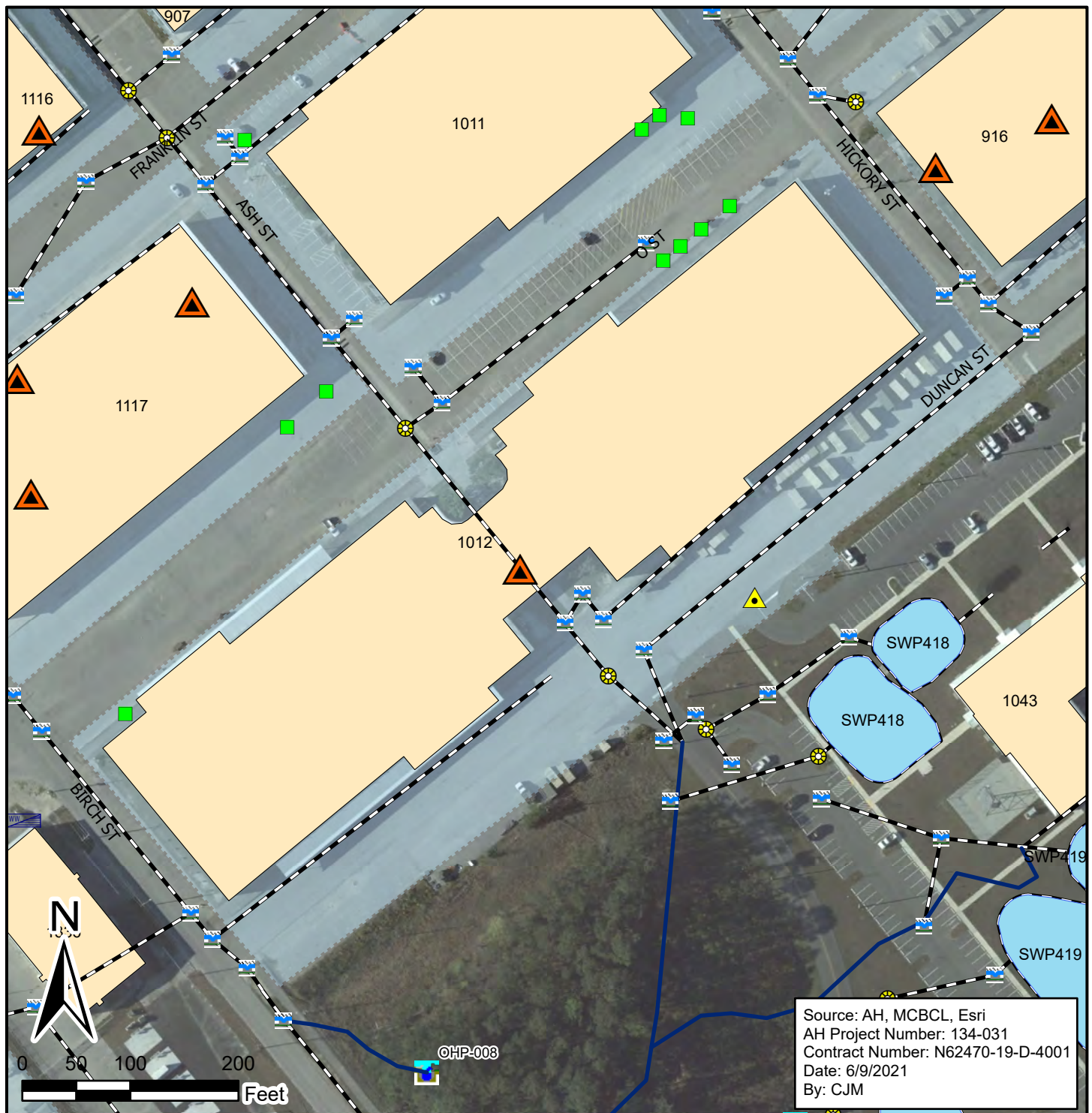


SWPPP Site Maps - Bldg. 1011

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 11



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

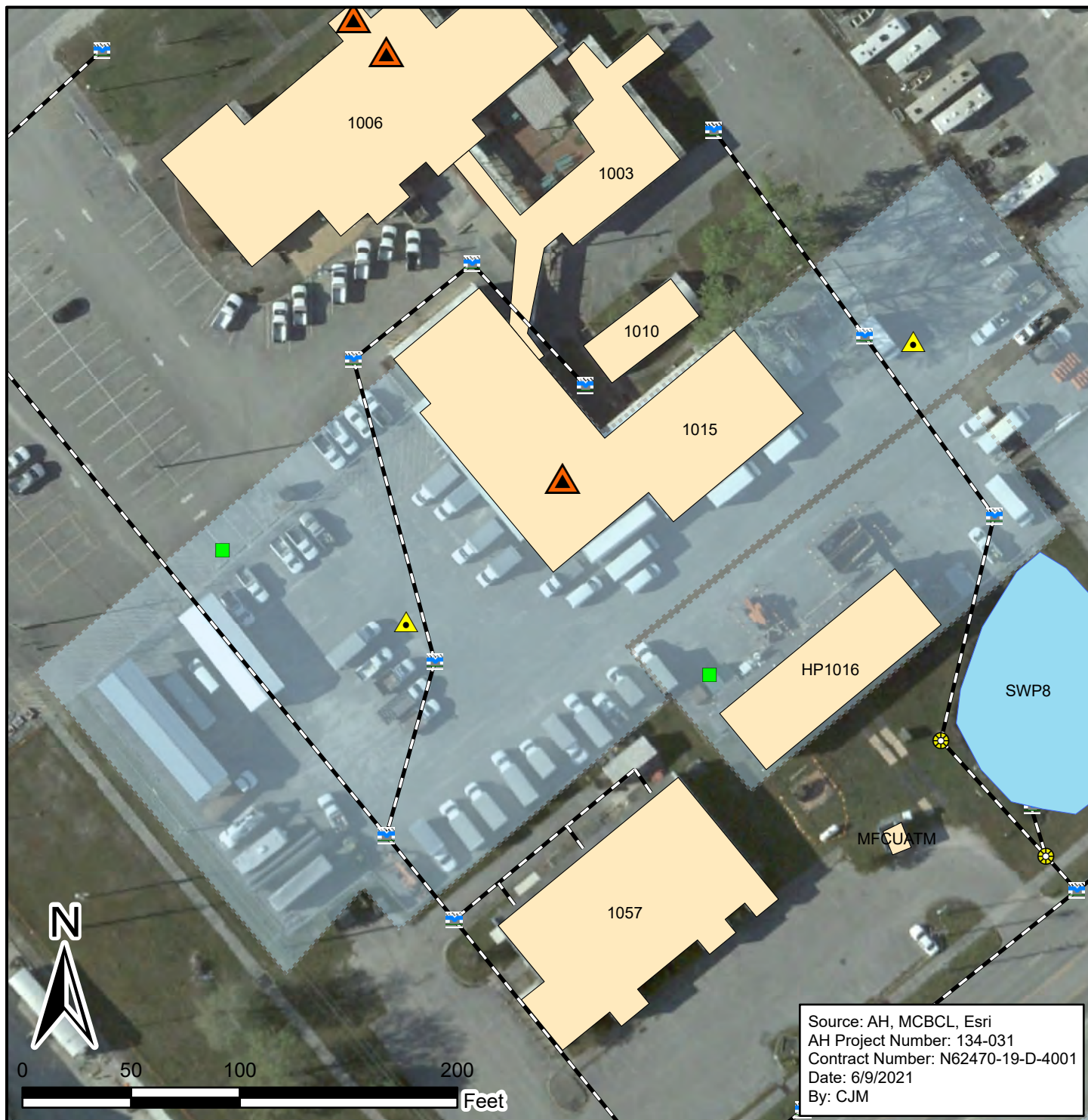


SWPPP Site Maps - Bldg. 1012

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 12



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1015

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 13



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

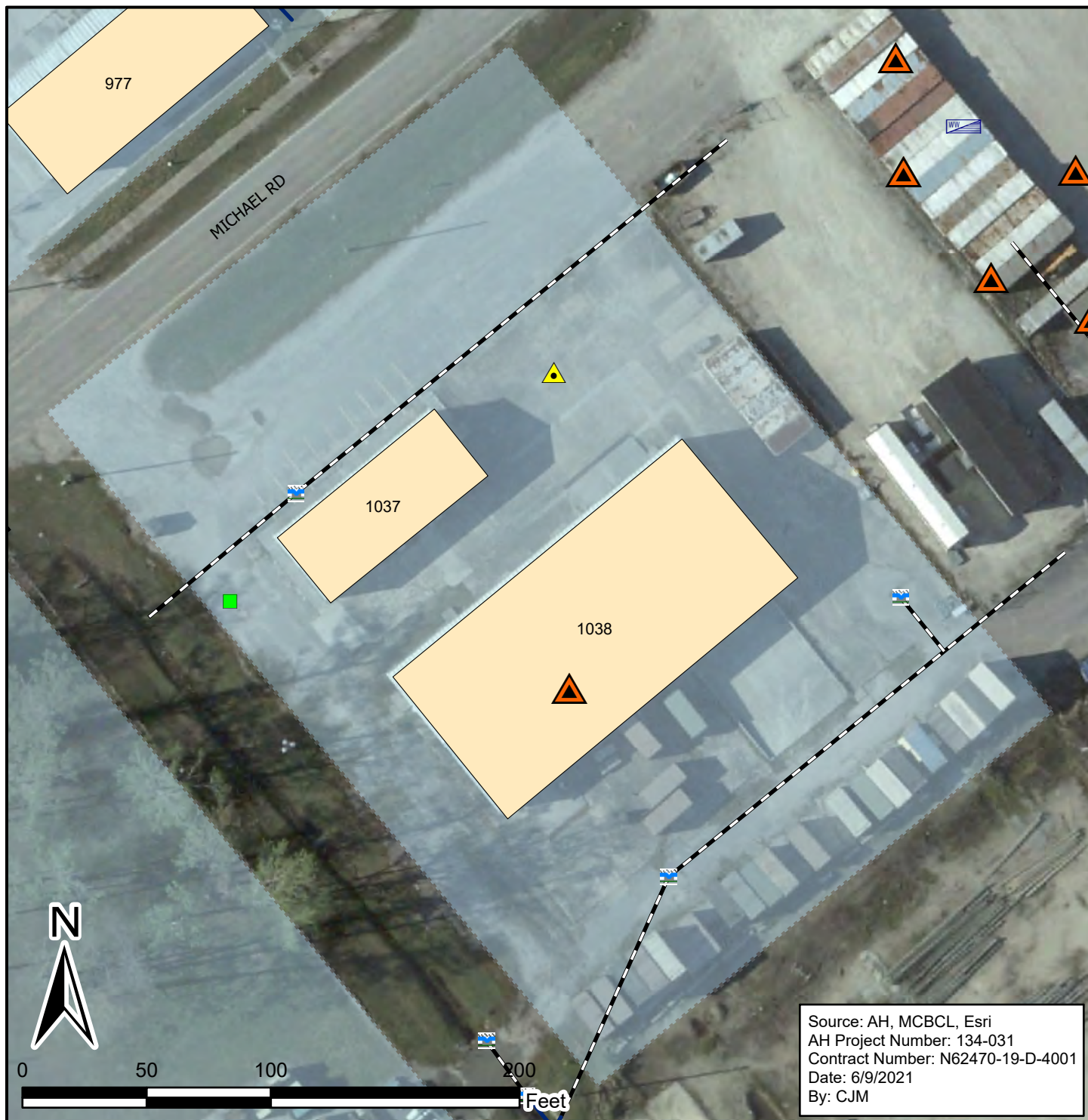


SWPPP Site Maps - Bldg. 1023

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 14



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1038

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 15



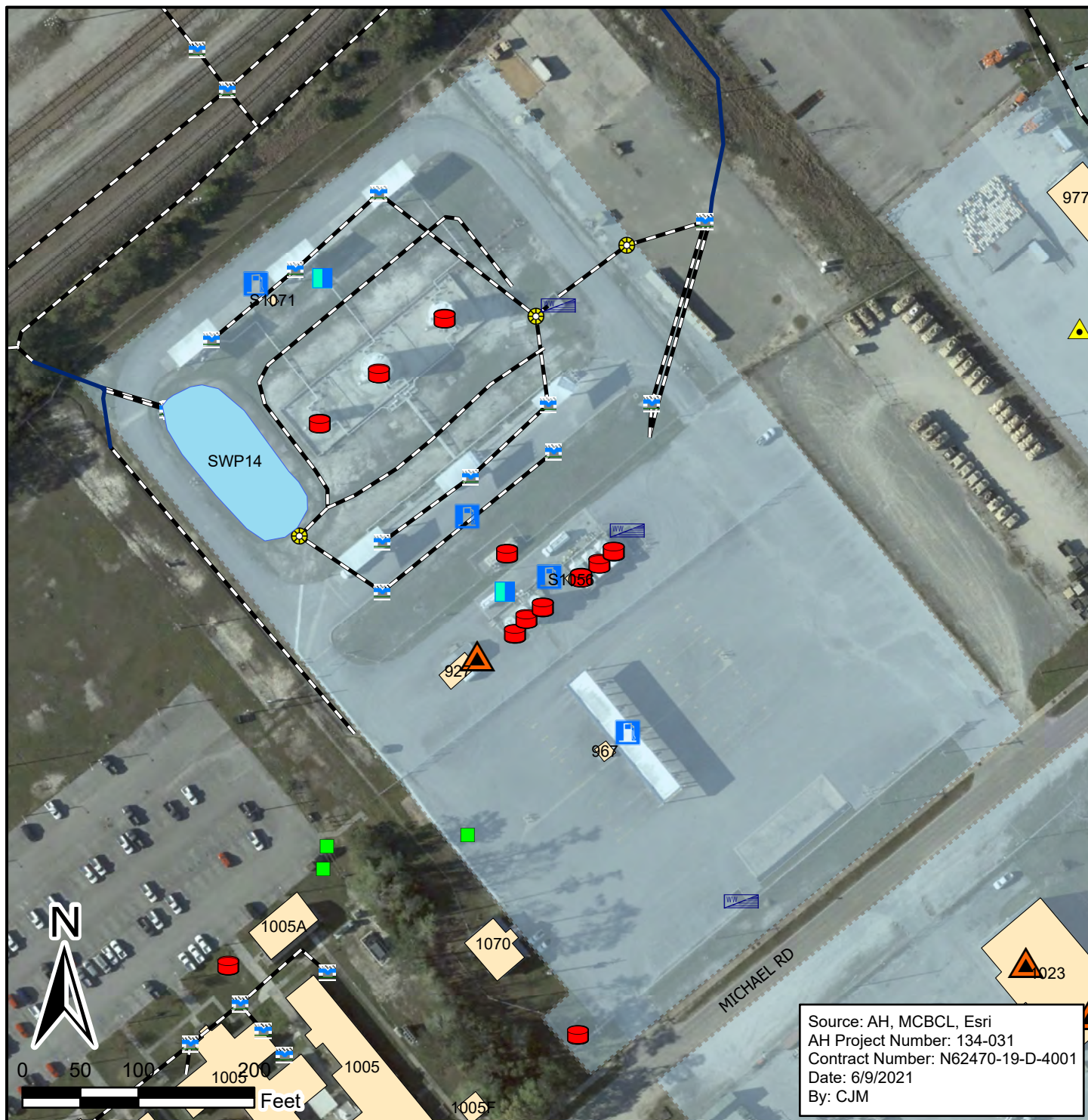
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- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1047
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 16



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1070

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 17



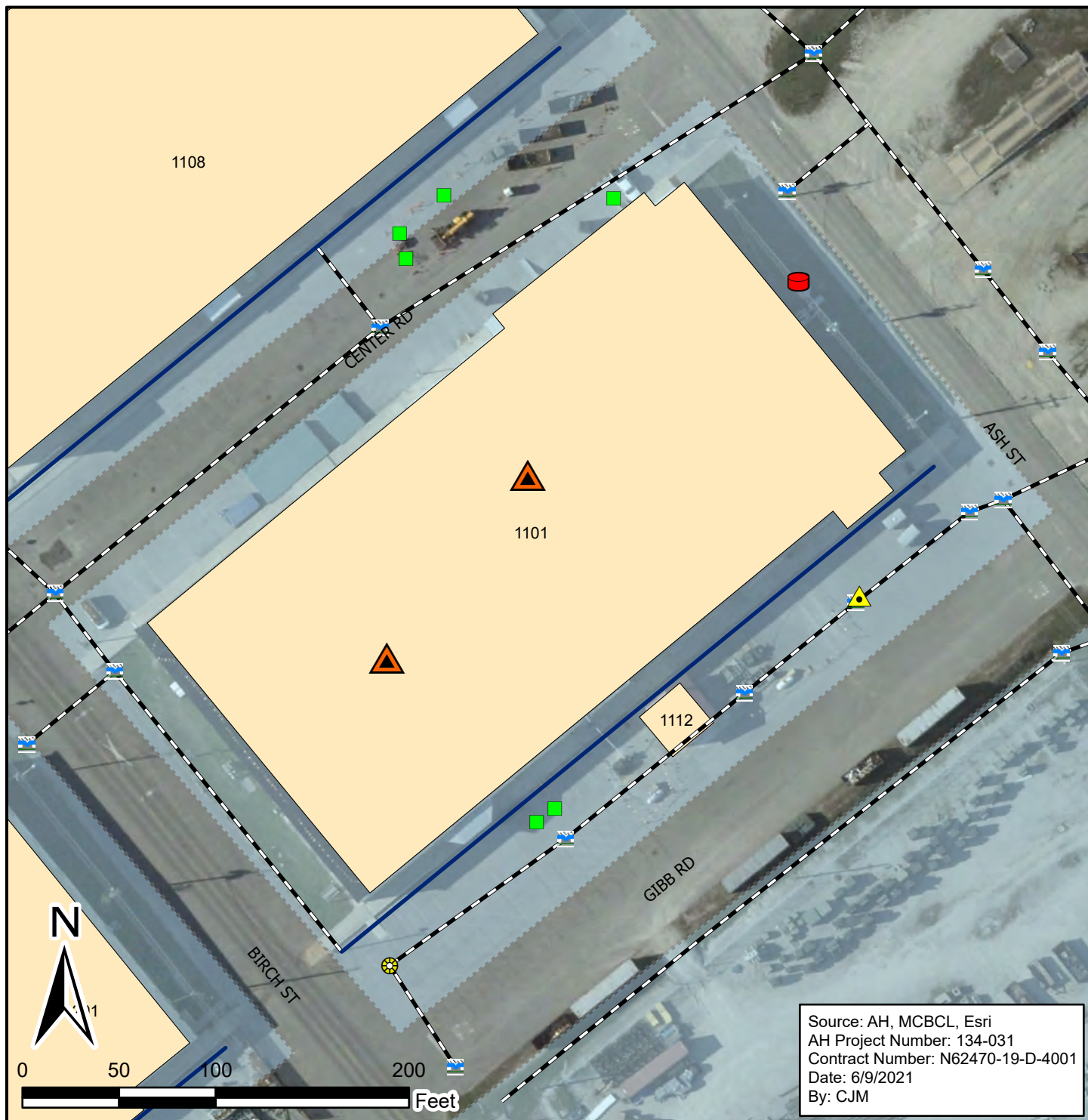
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|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1081
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 18



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

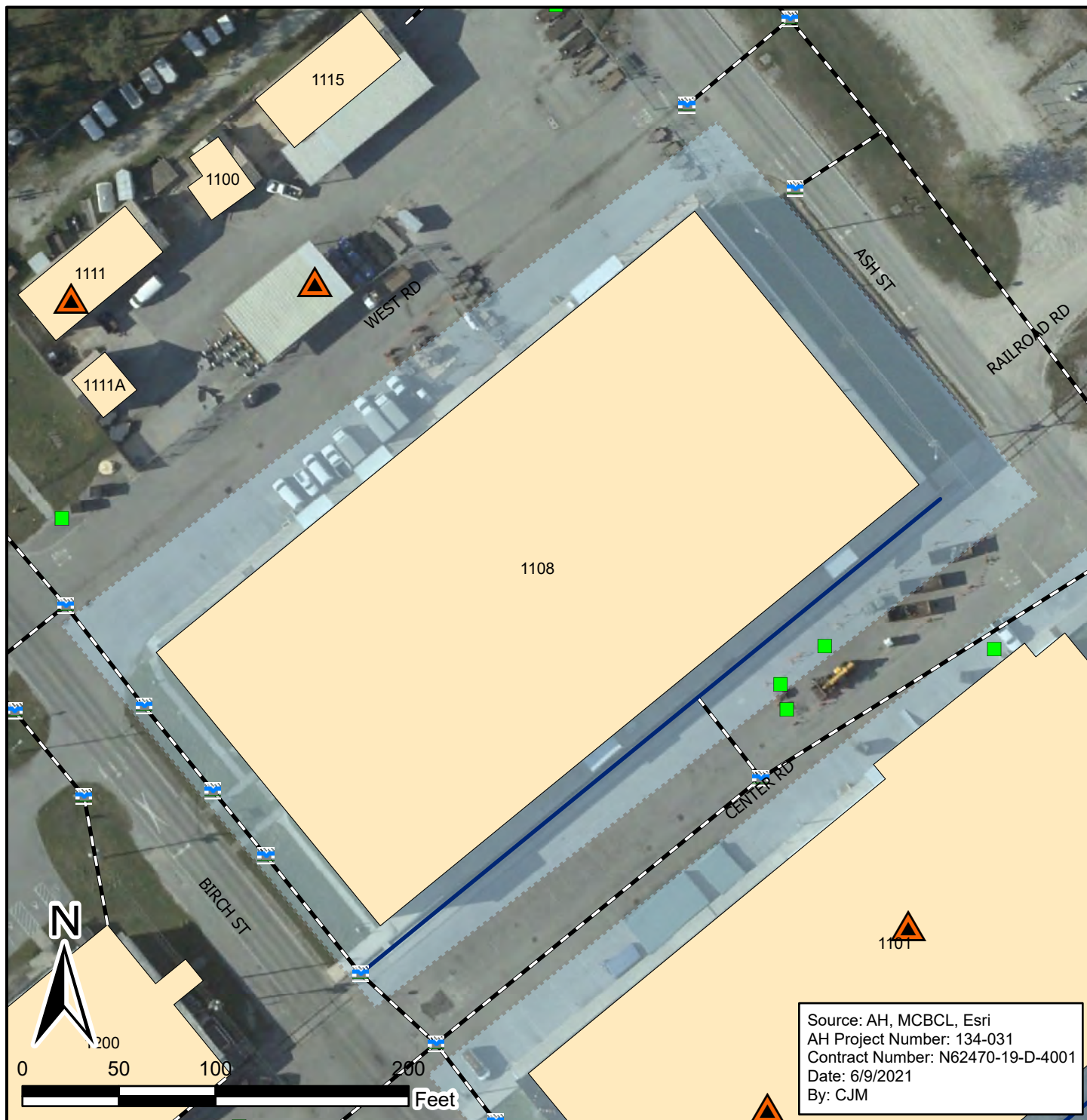


SWPPP Site Maps - Bldg. 1101

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 19



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

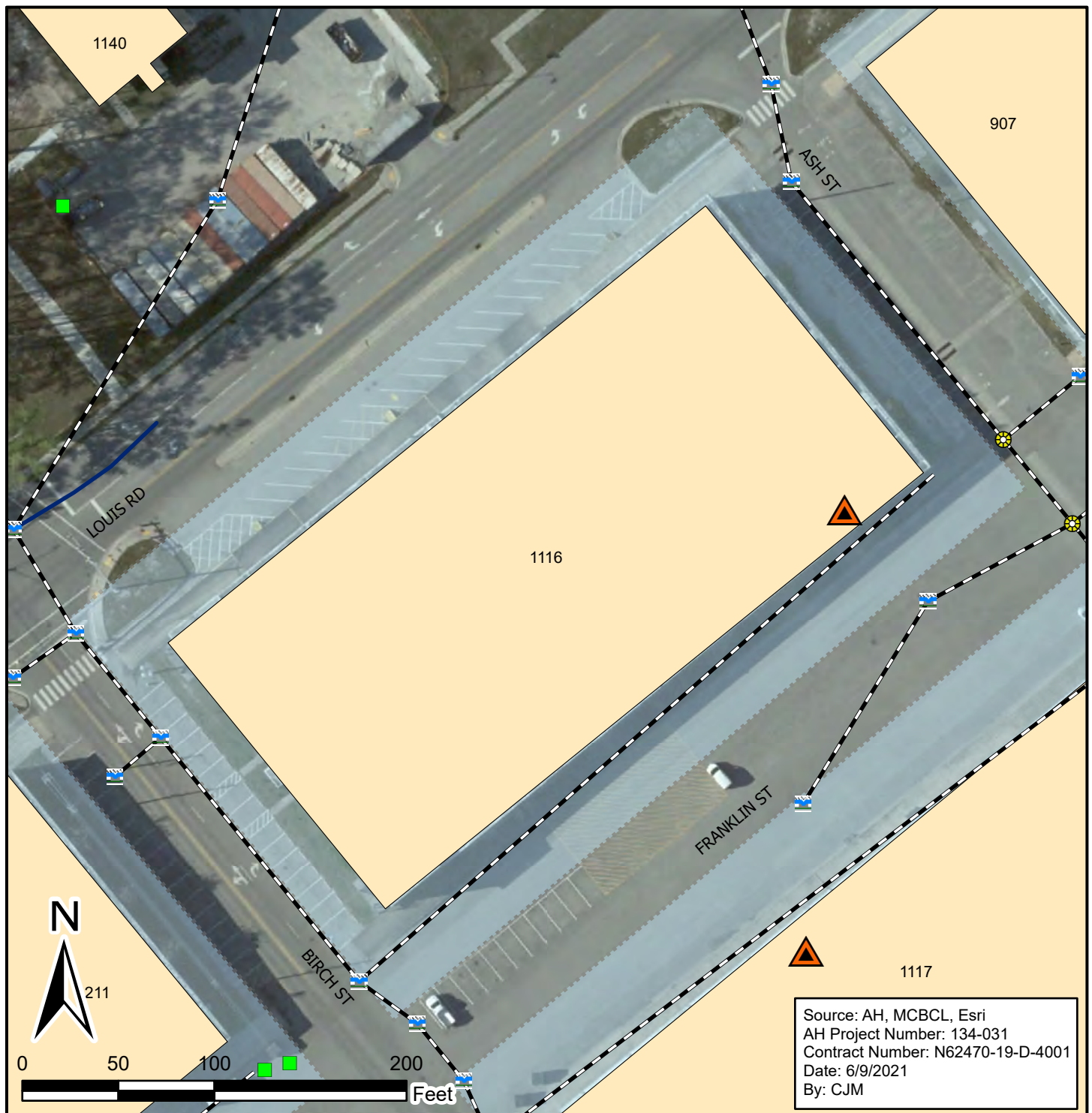


SWPPP Site Maps - Bldg. 1108

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 20



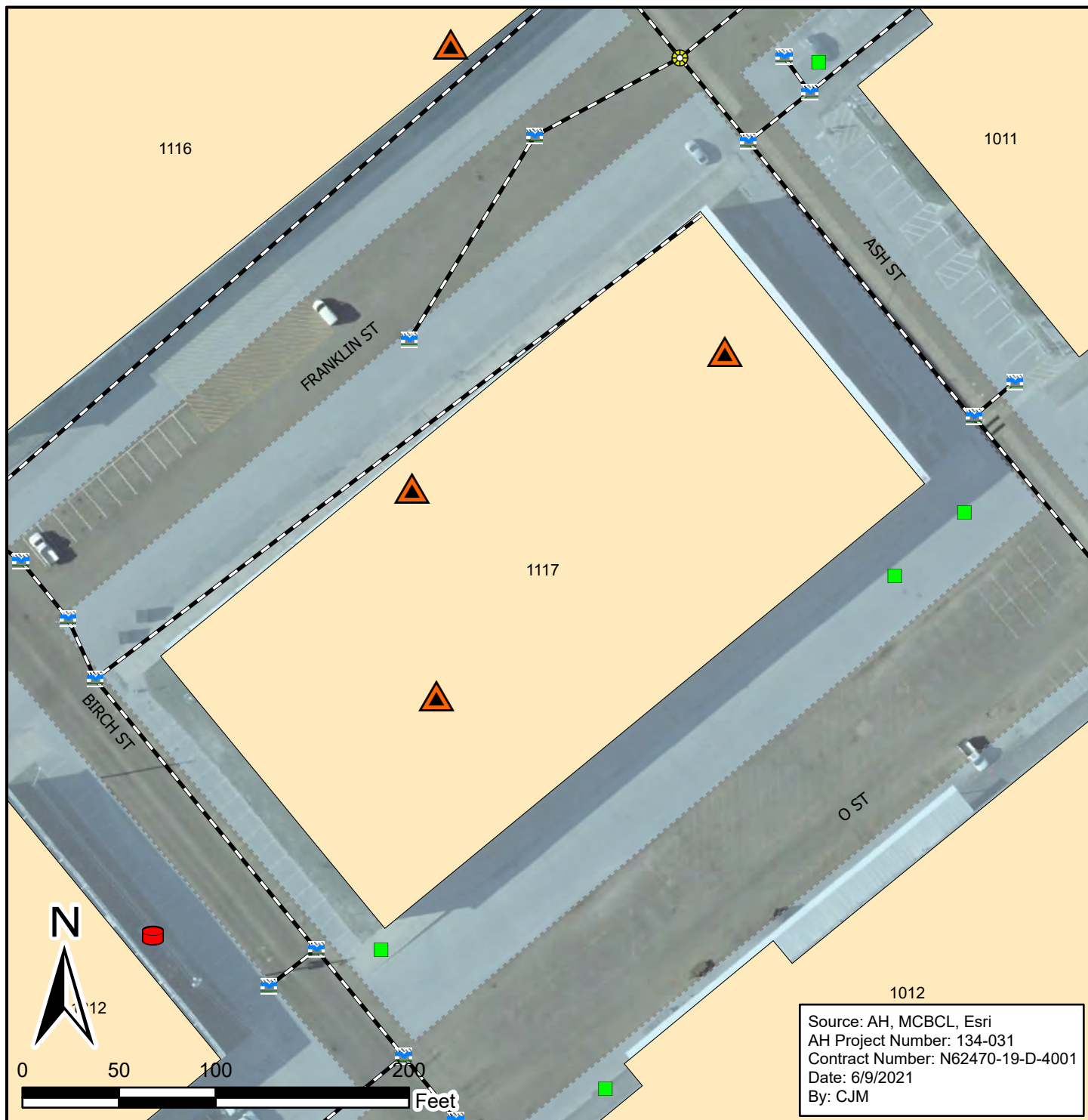
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1116
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 21



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

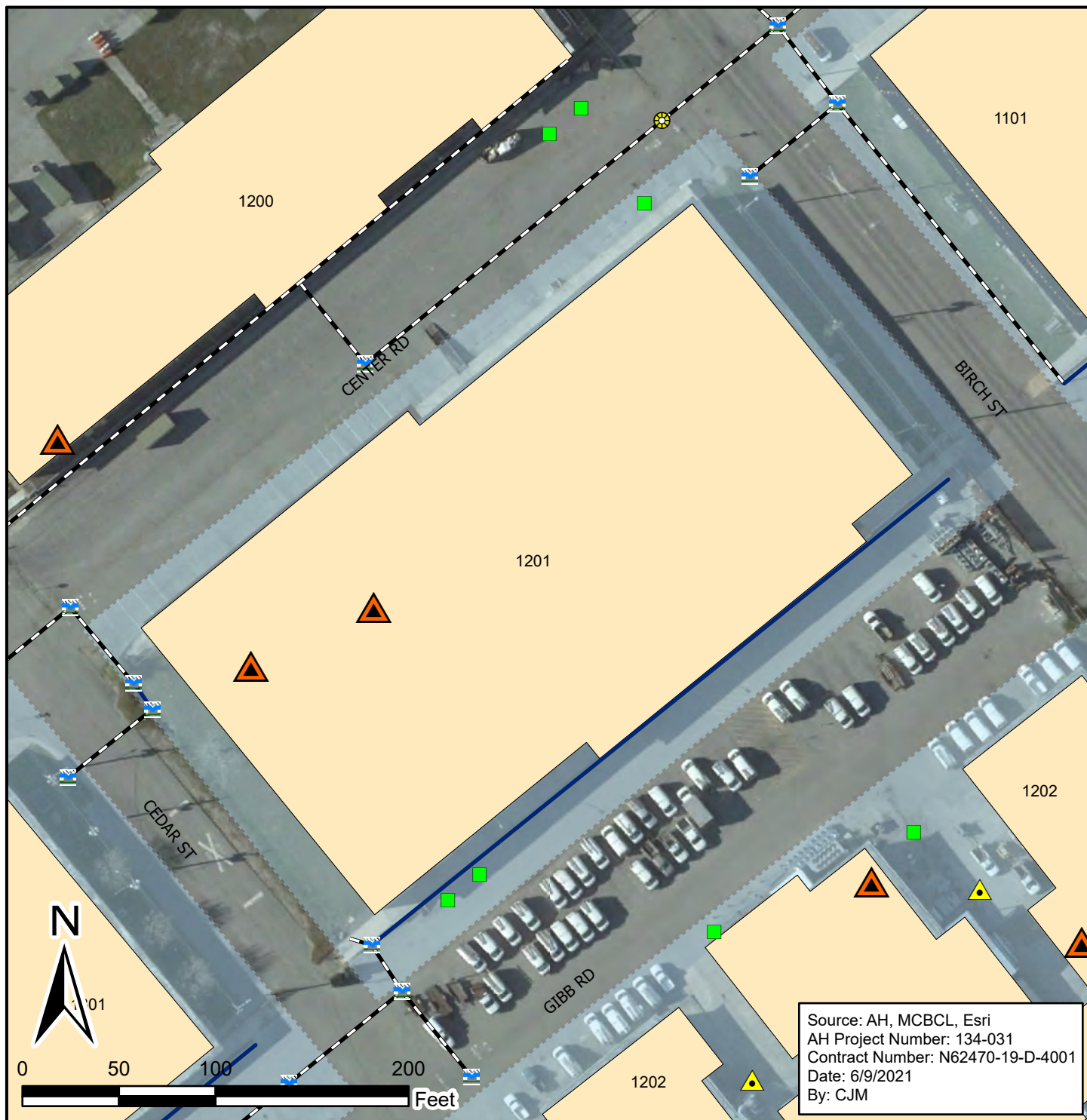


SWPPP Site Maps - Bldg. 1117

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 22



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

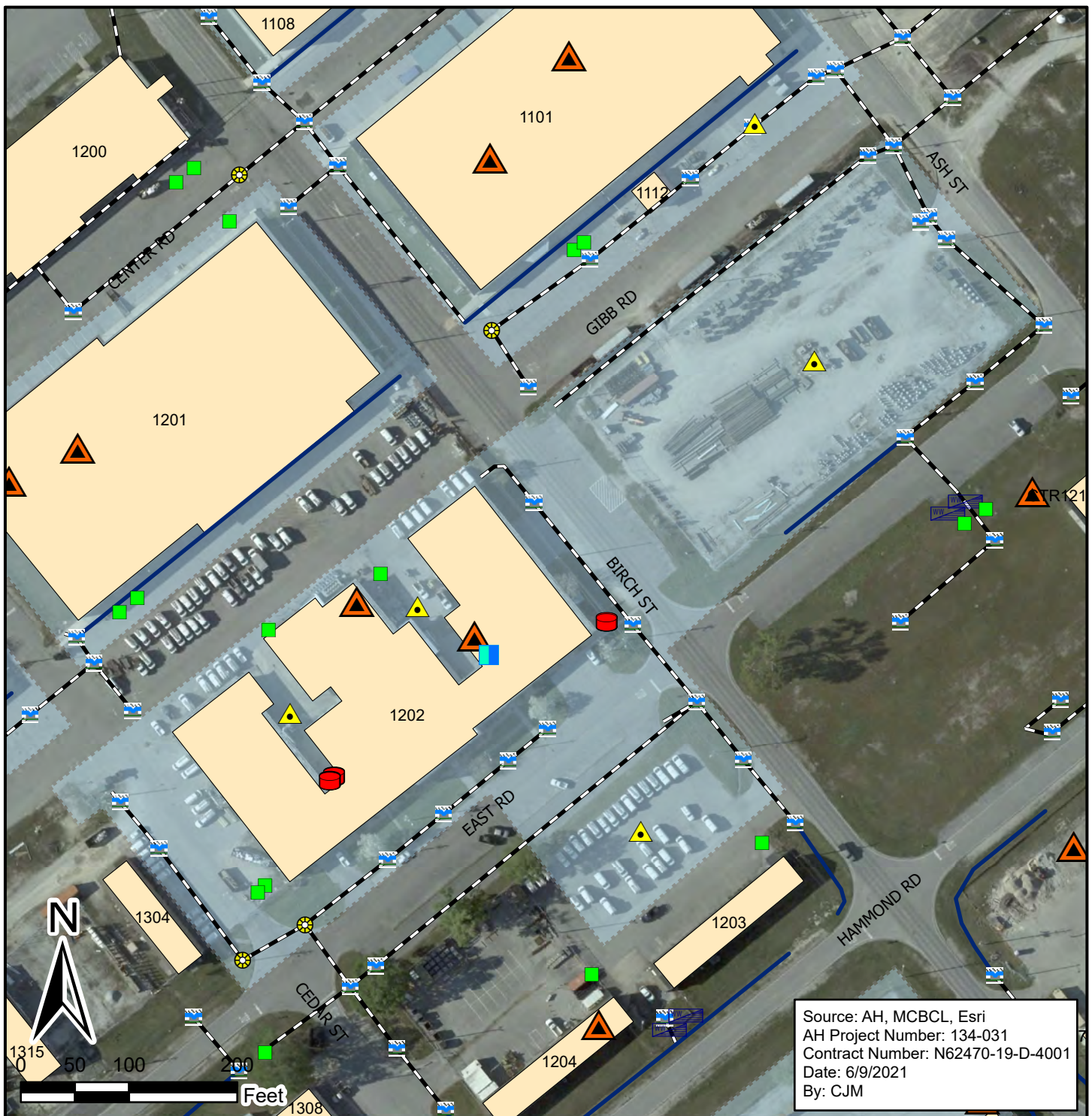


SWPPP Site Maps - Bldg. 1201

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 23



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1202

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 24



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

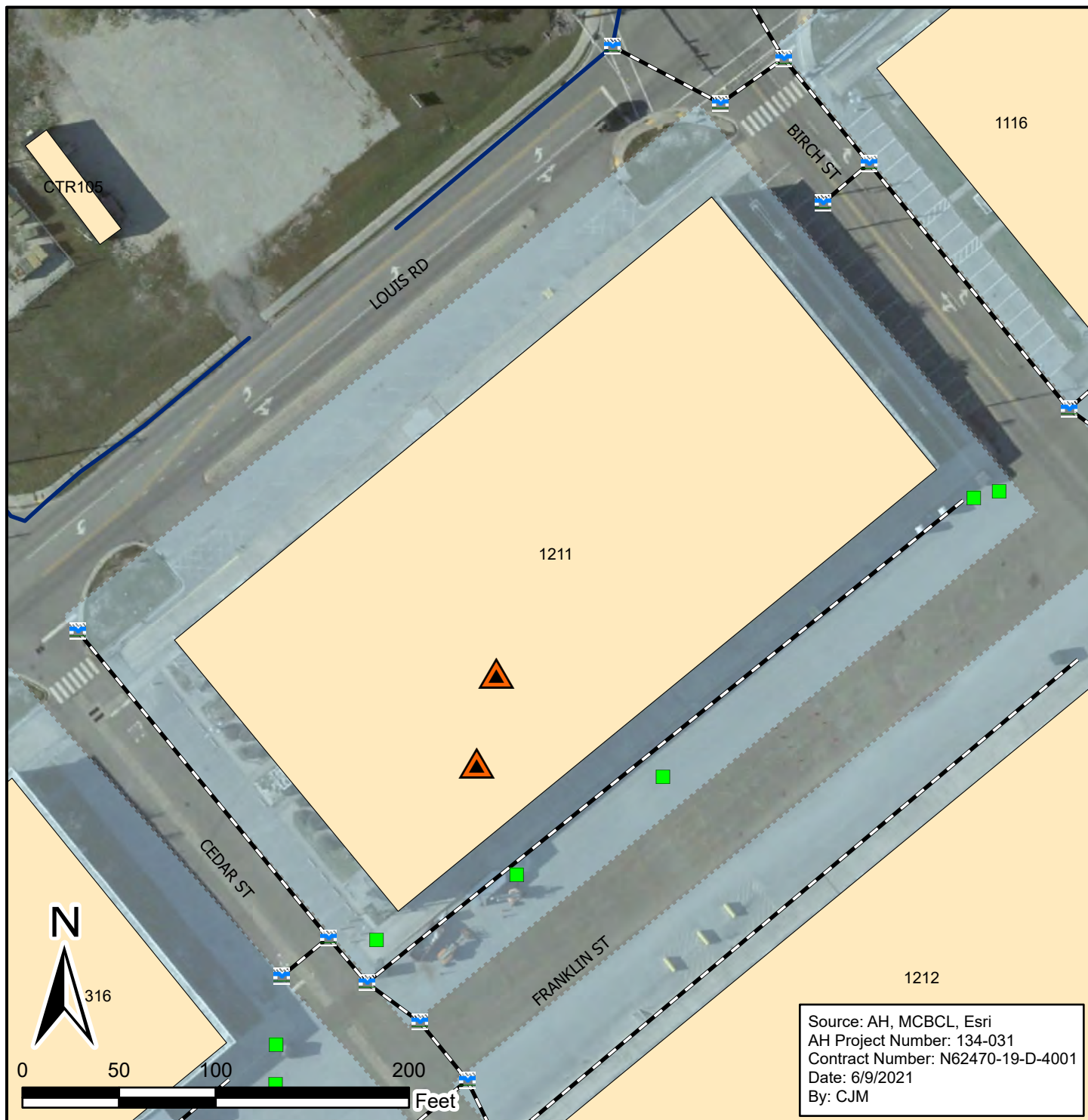


SWPPP Site Maps - Bldg. 1206

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 25



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

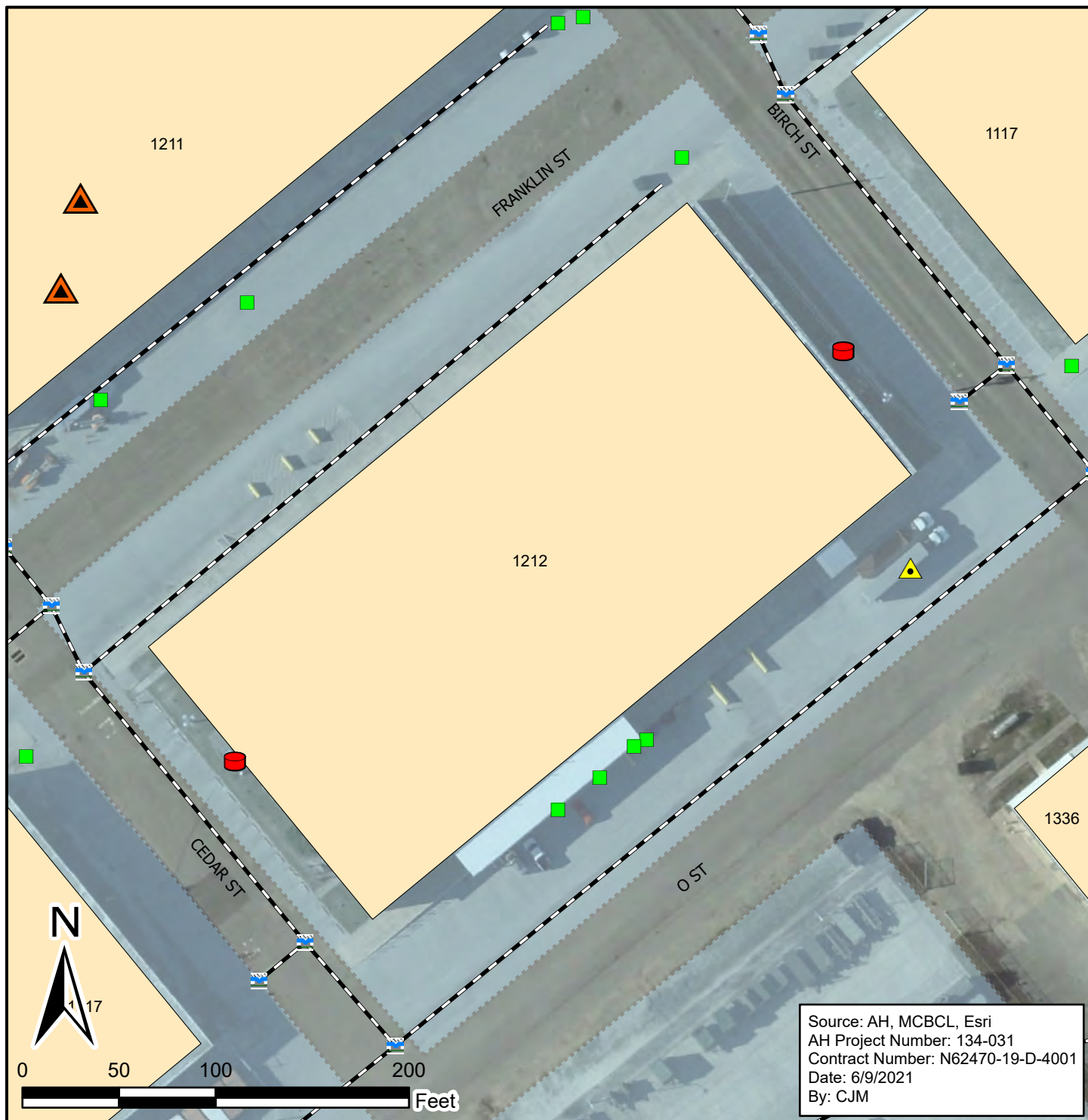


SWPPP Site Maps - Bldg. 1211

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 26



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

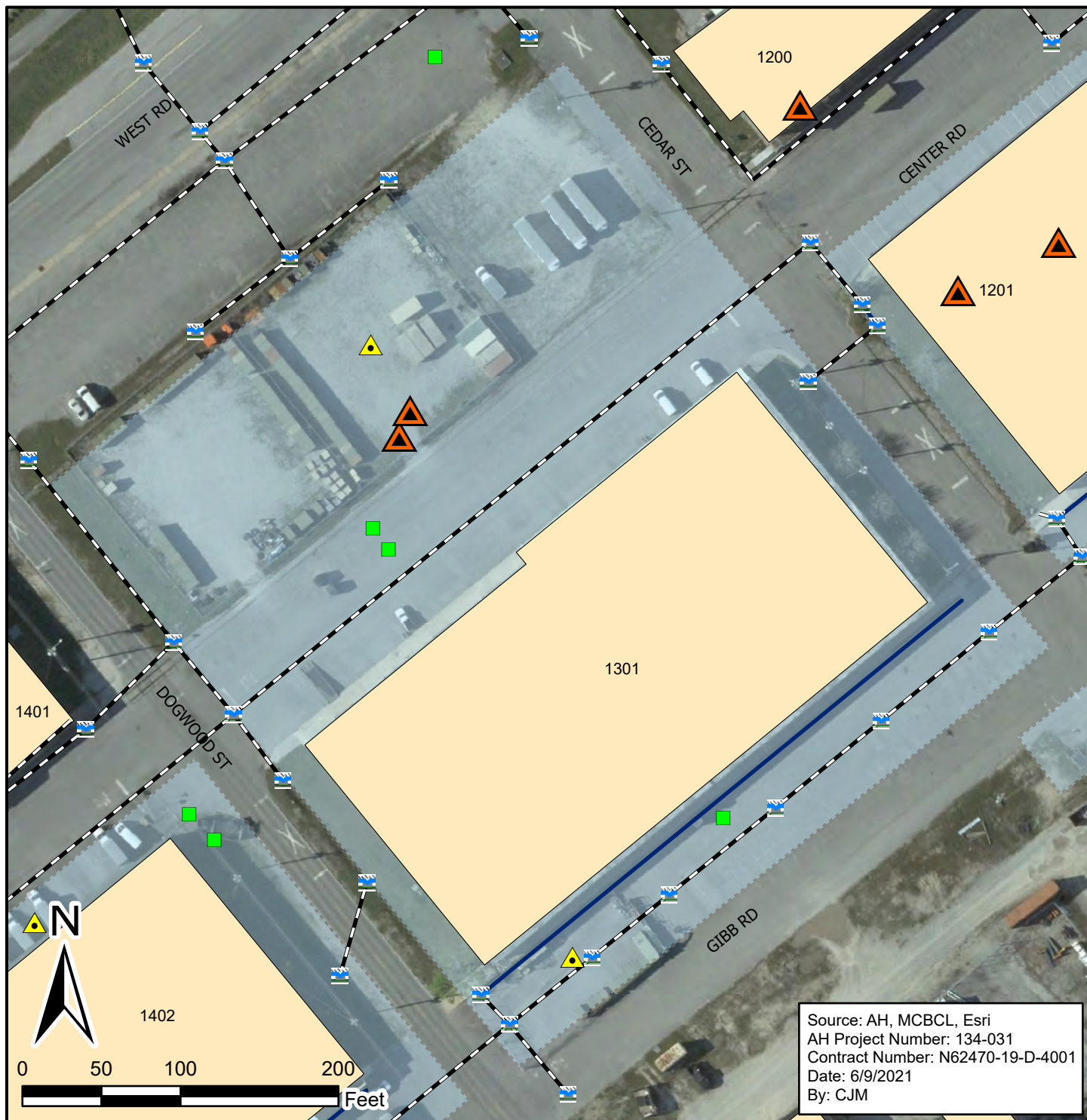


SWPPP Site Maps - Bldg. 1212

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 27



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

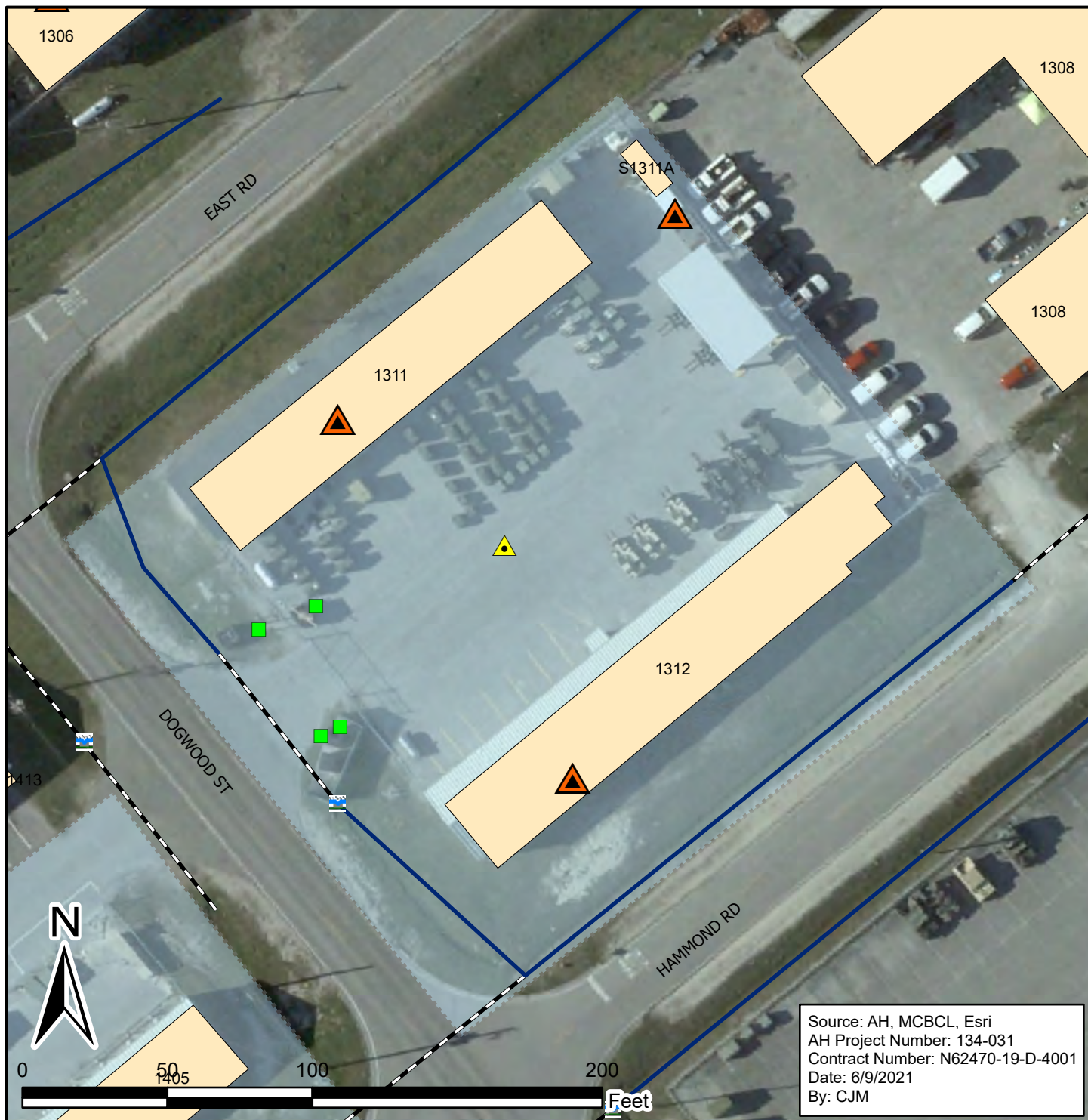


SWPPP Site Maps - Bldg. 1301

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 28



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

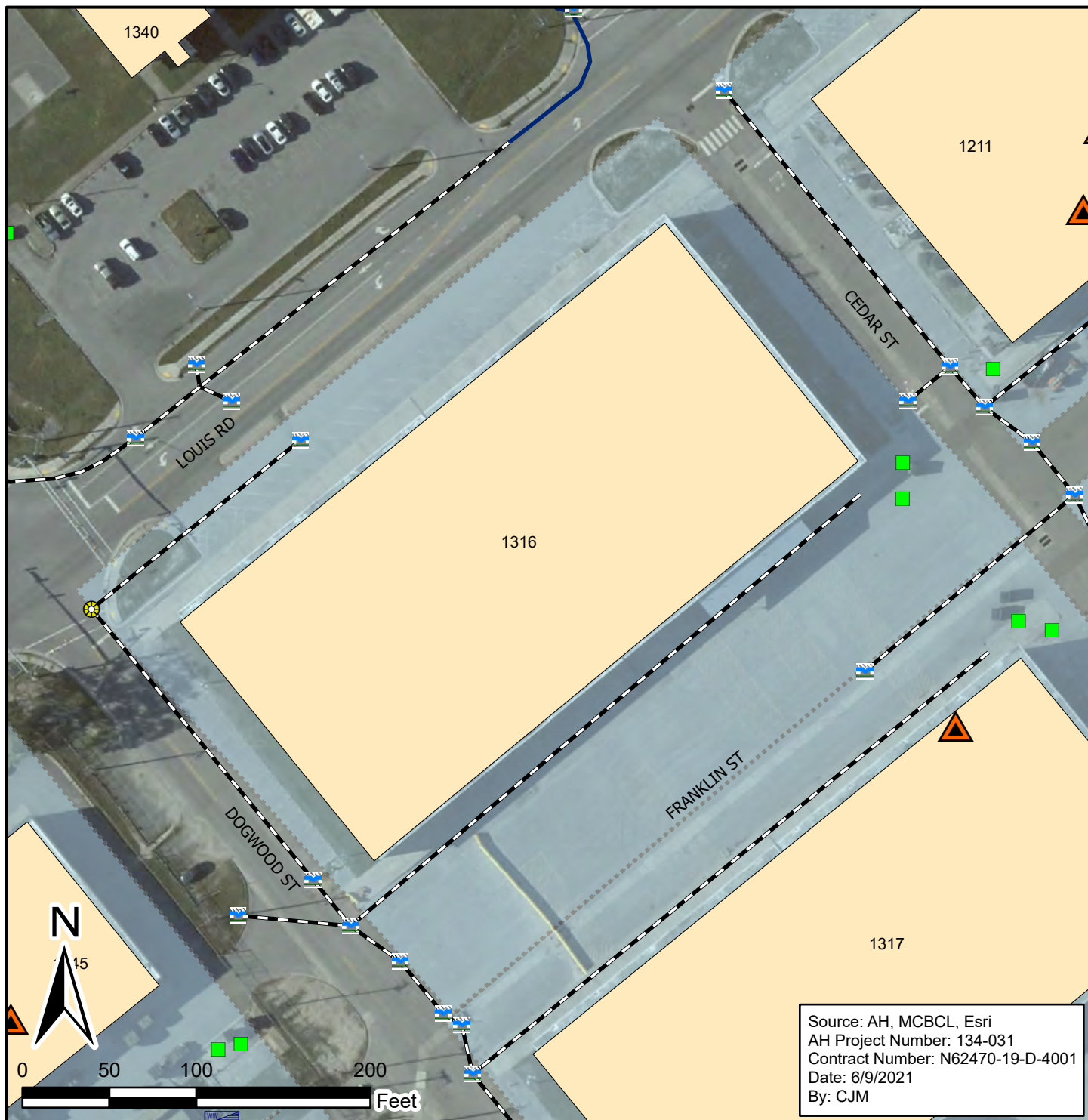


SWPPP Site Maps - Bldg. 1311

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 29



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

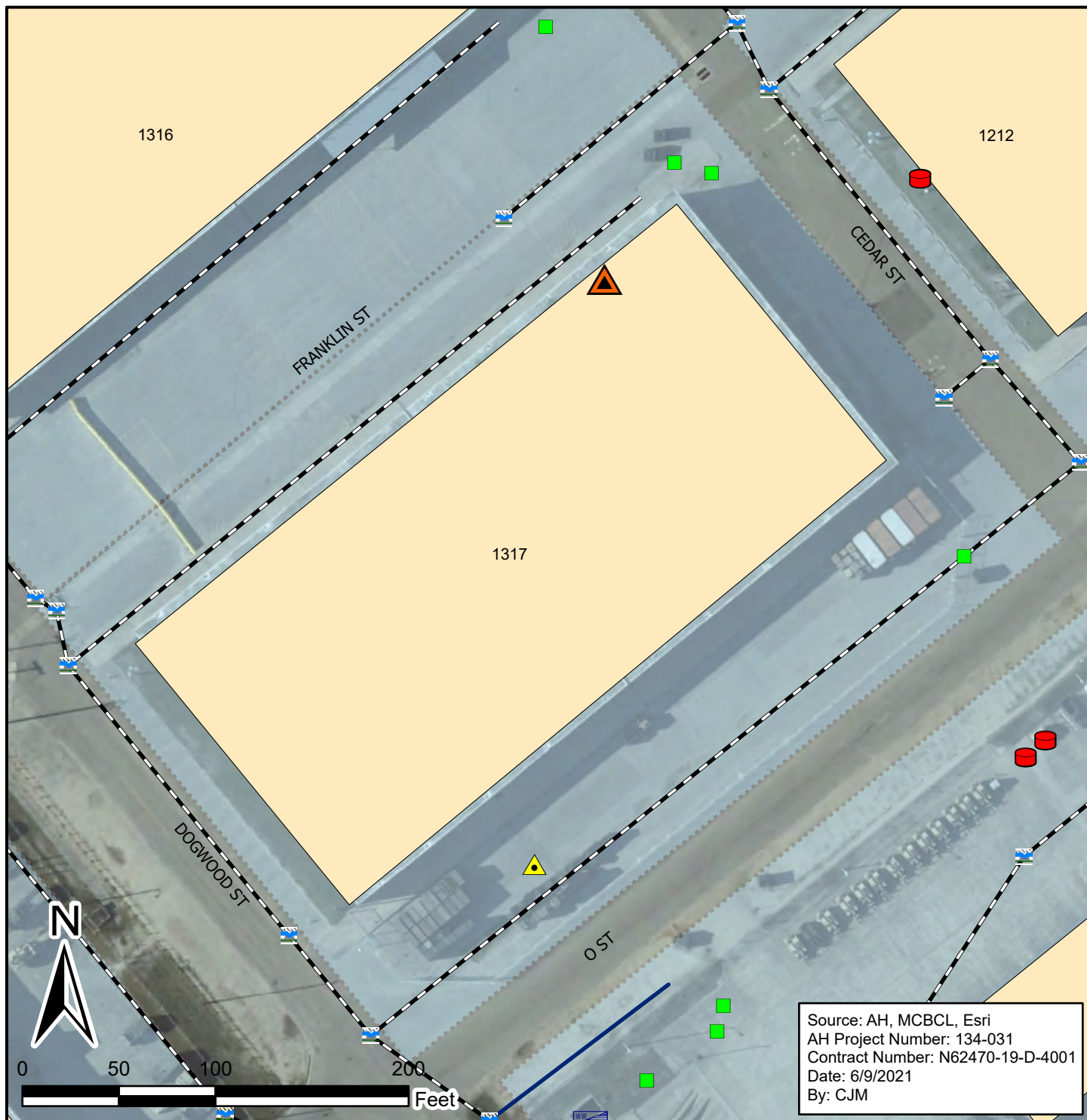


SWPPP Site Maps - Bldg. 1316

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 30



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

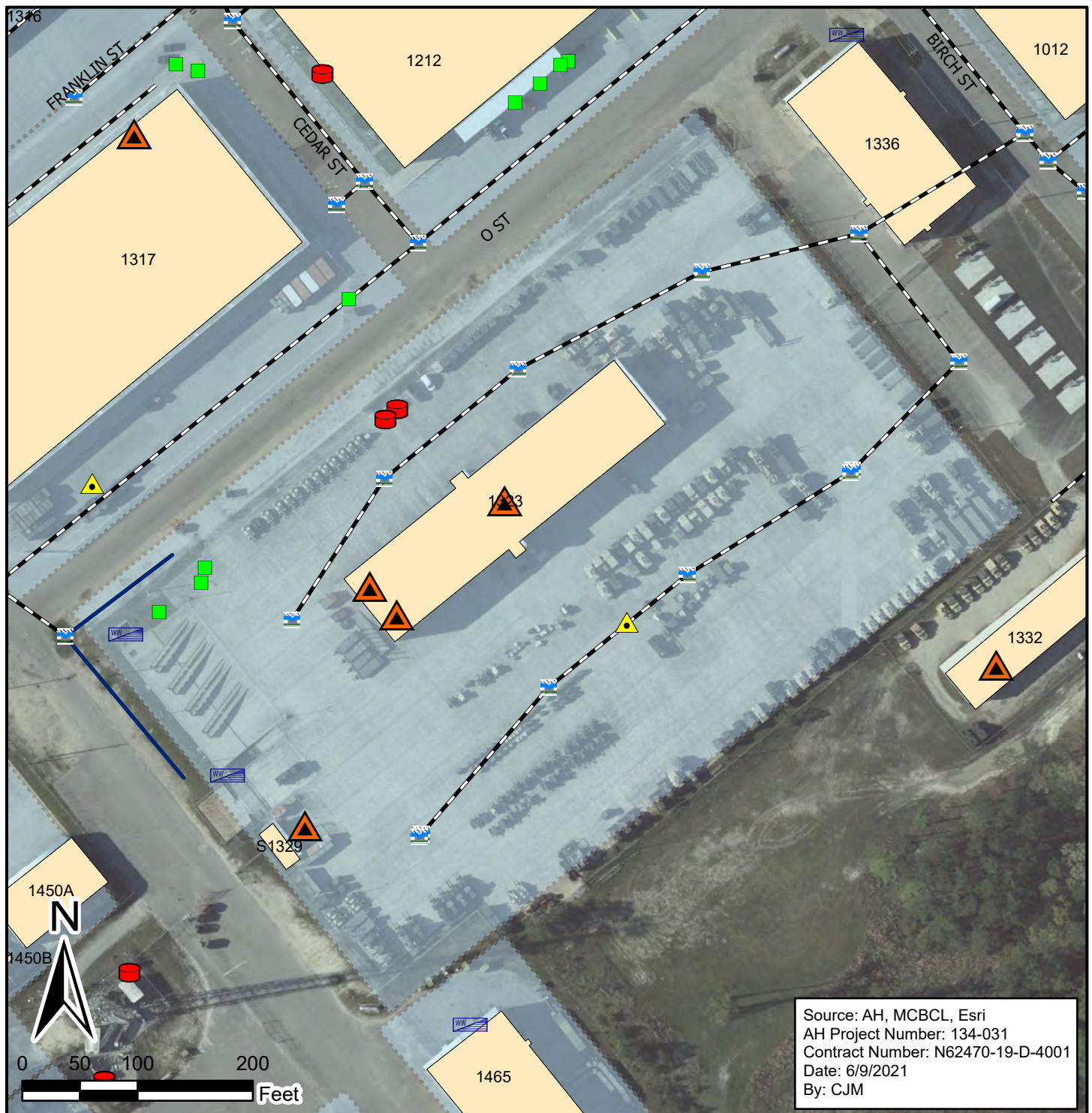


SWPPP Site Maps - Bldg. 1317

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 31



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

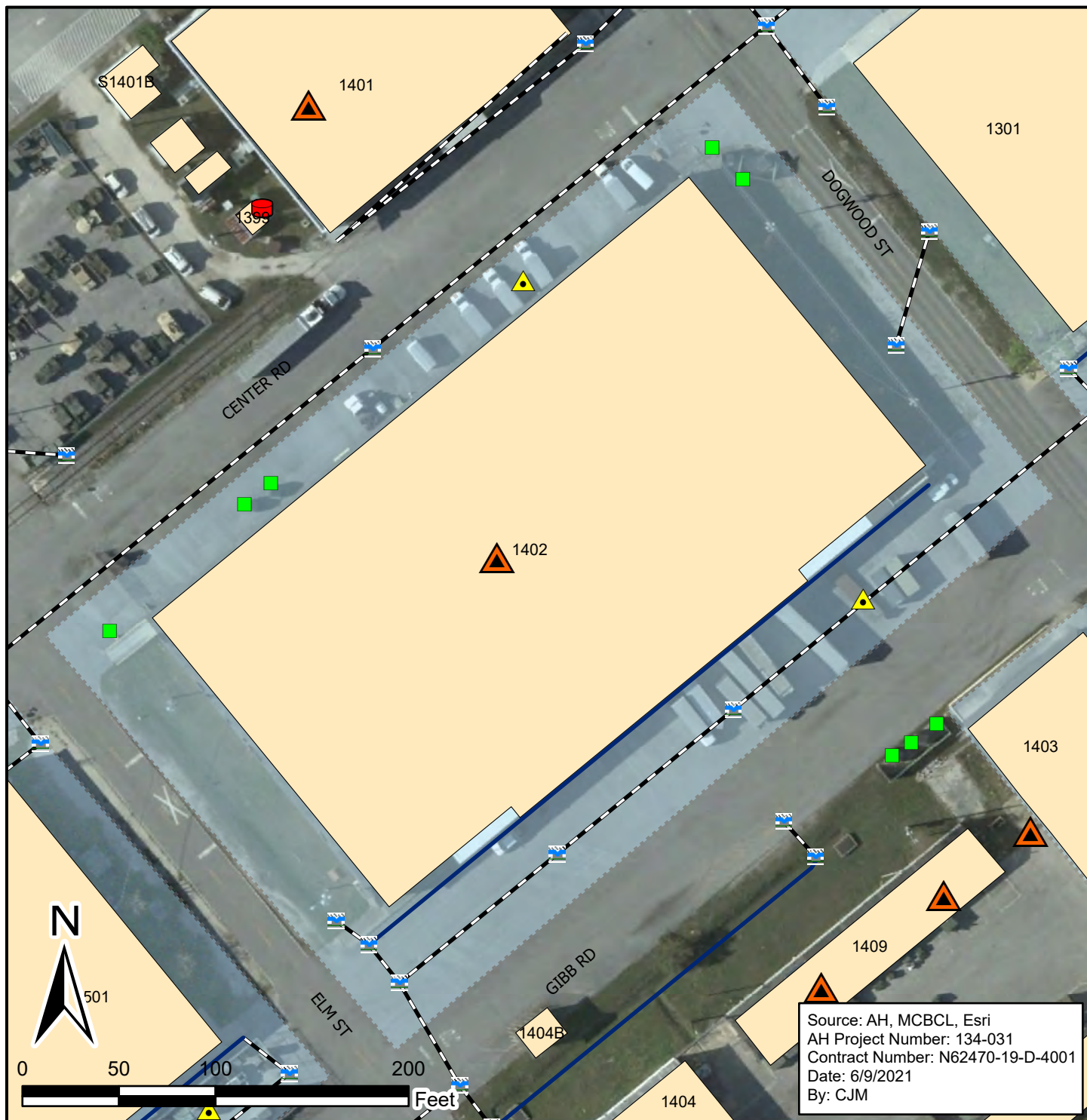


SWPPP Site Maps - Bldg. 1323

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 32



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

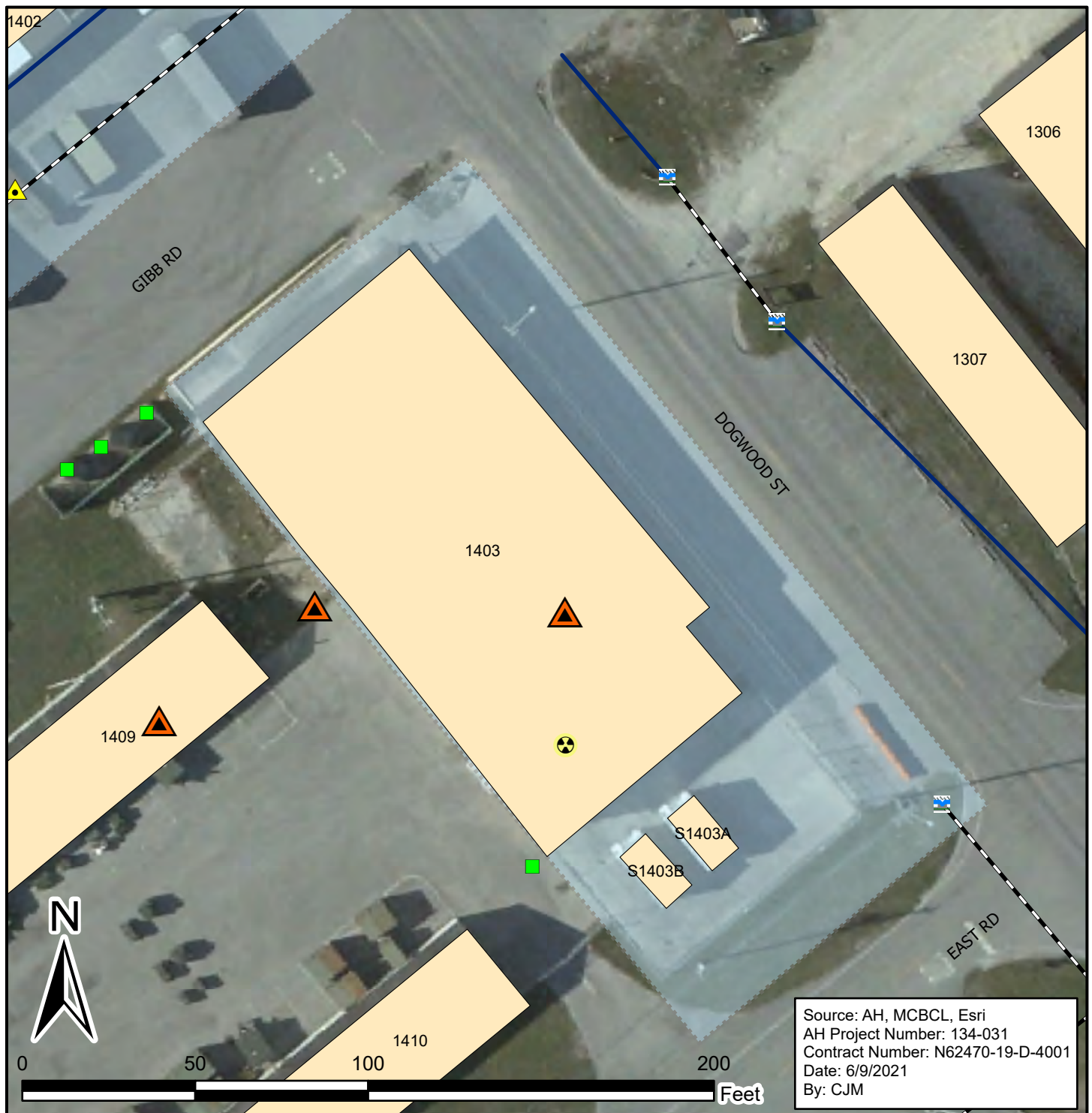


SWPPP Site Maps - Bldg. 1402

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 33



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1403
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 34



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

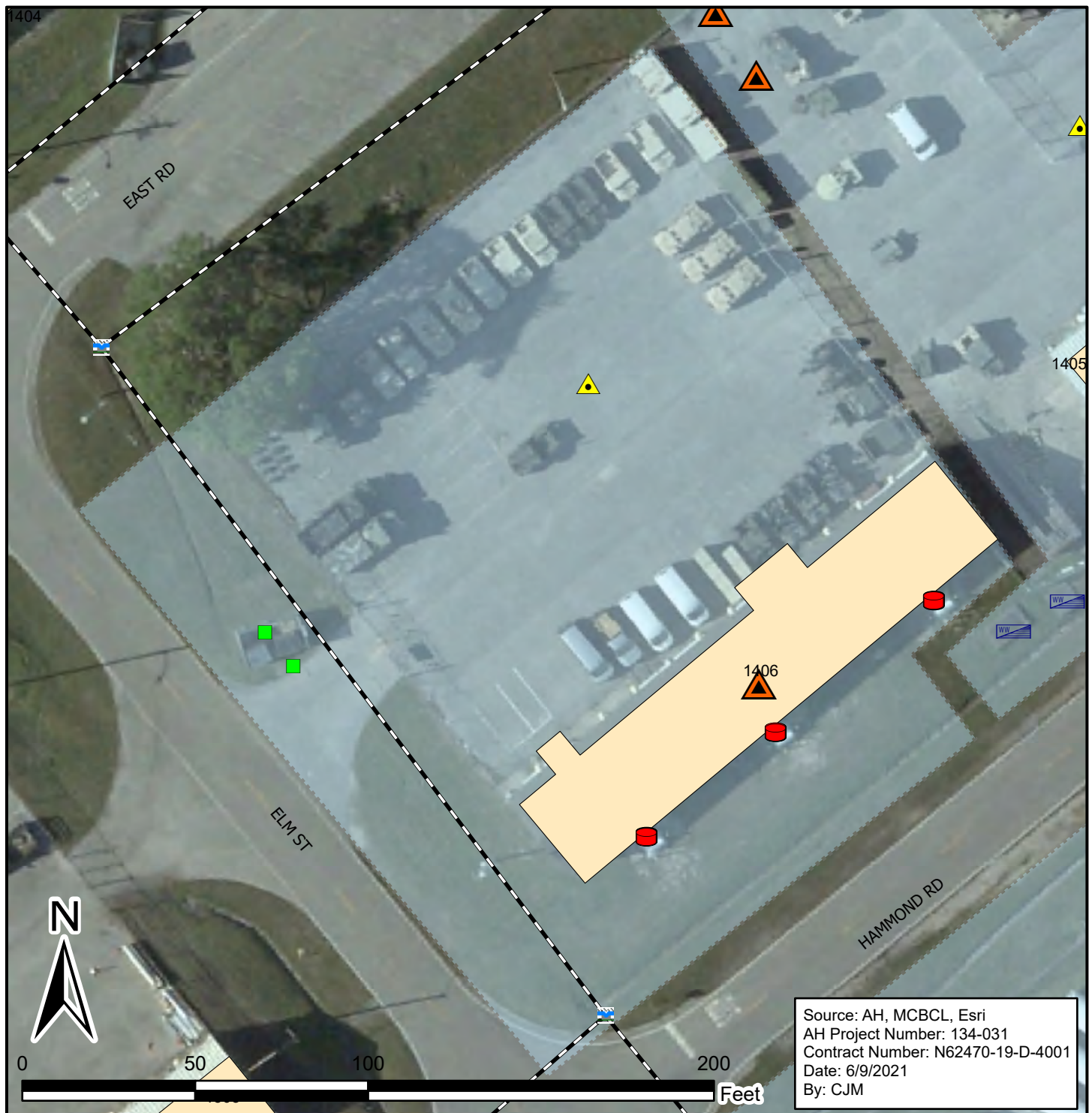


SWPPP Site Maps - Bldg. 1405

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 35



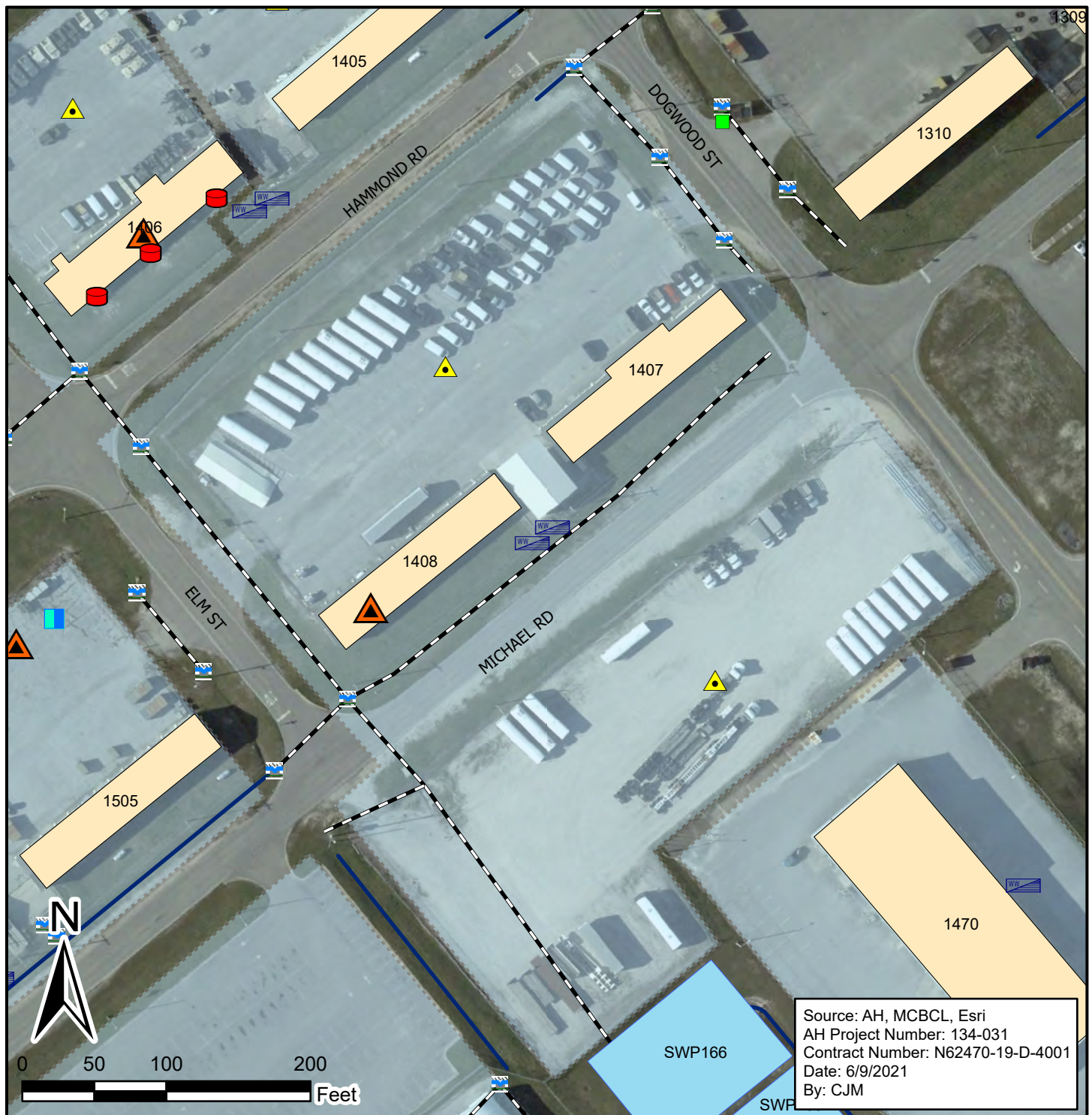
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1406
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 36



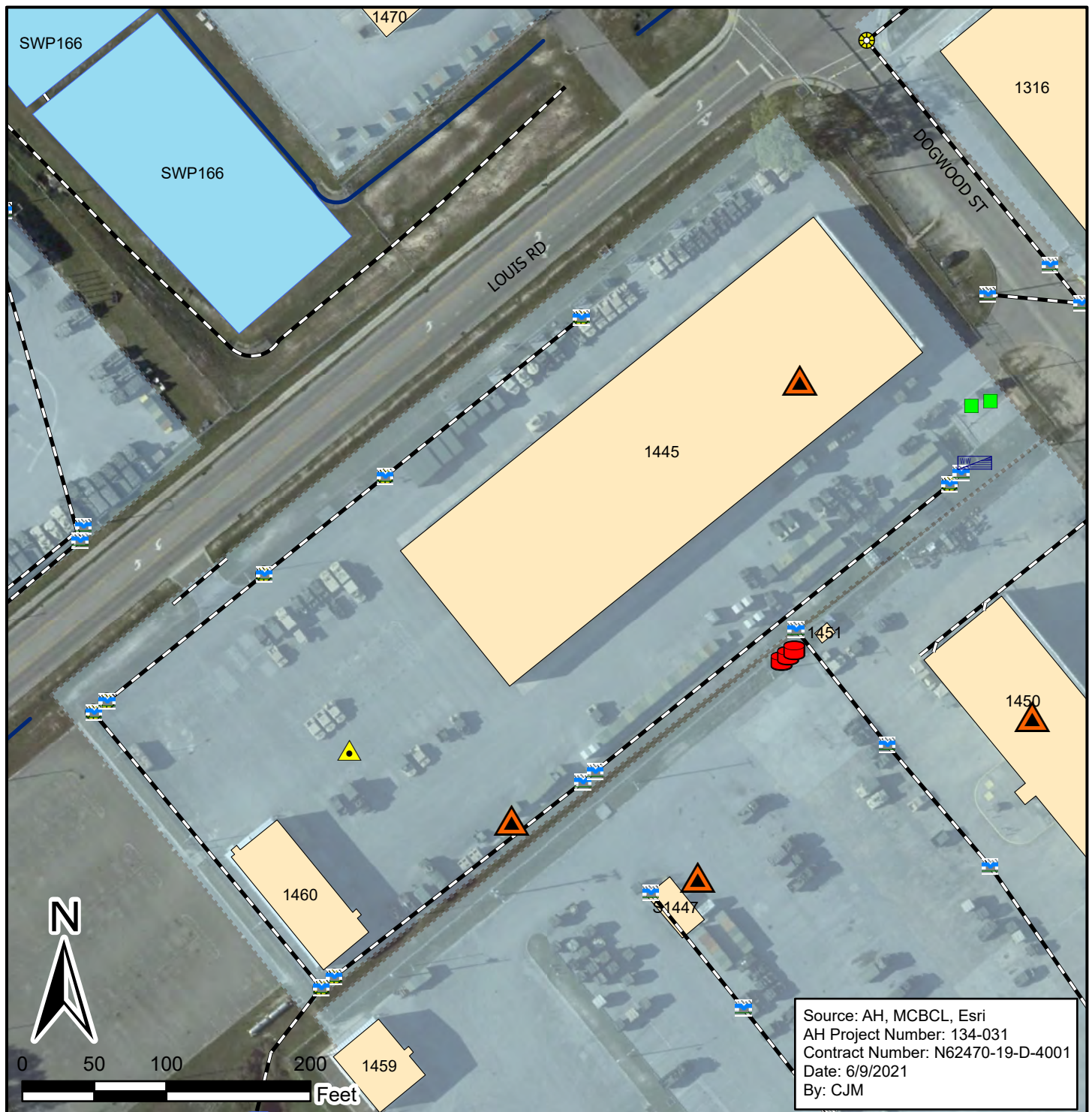
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1408
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 37



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

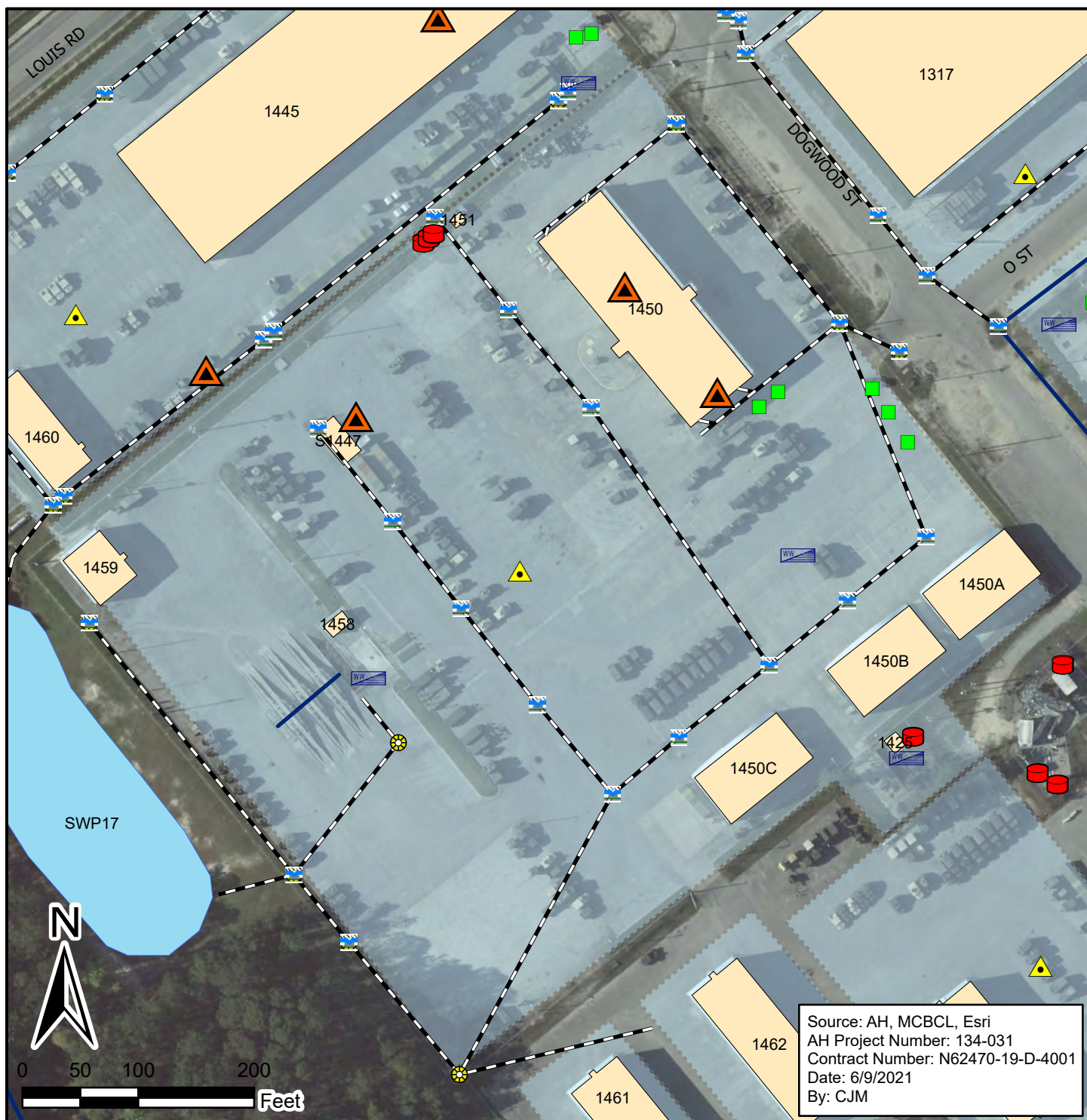


SWPPP Site Maps - Bldg. 1445

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 38



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

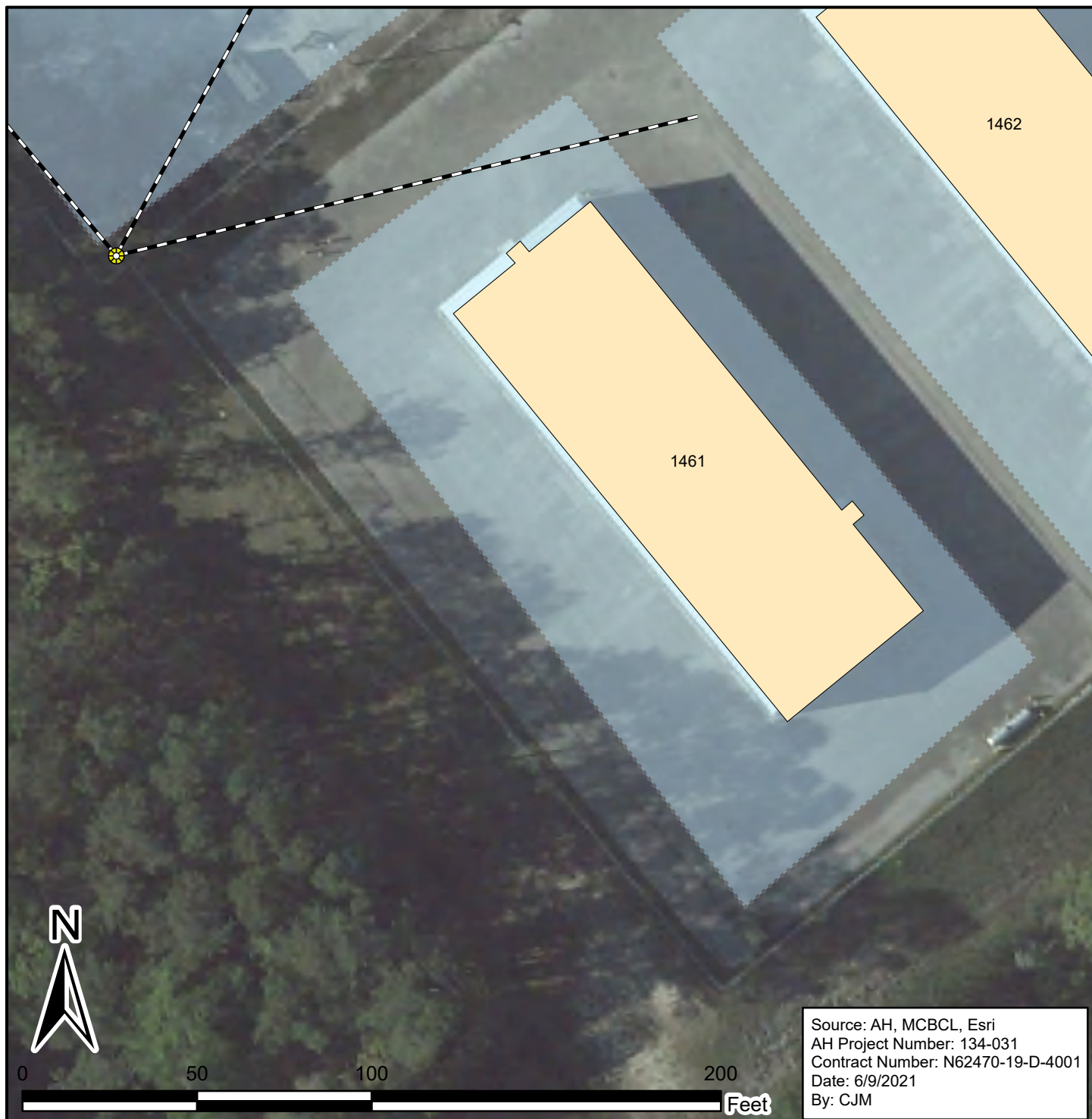


SWPPP Site Maps - Bldg. 1450

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 39



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

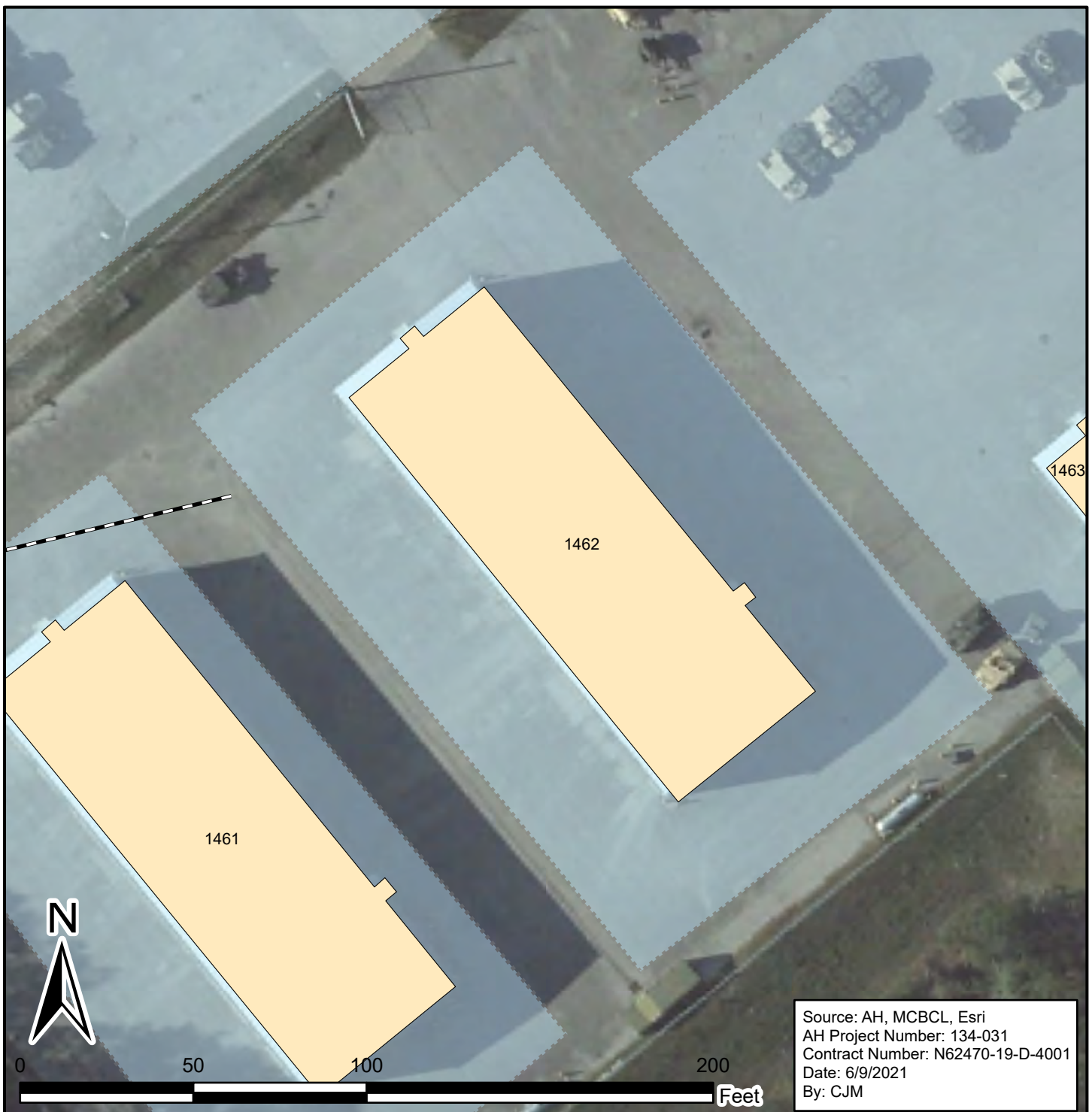


SWPPP Site Maps - Bldg. 1461

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 40



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1462
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 41



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1463

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 42



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1464

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 43



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

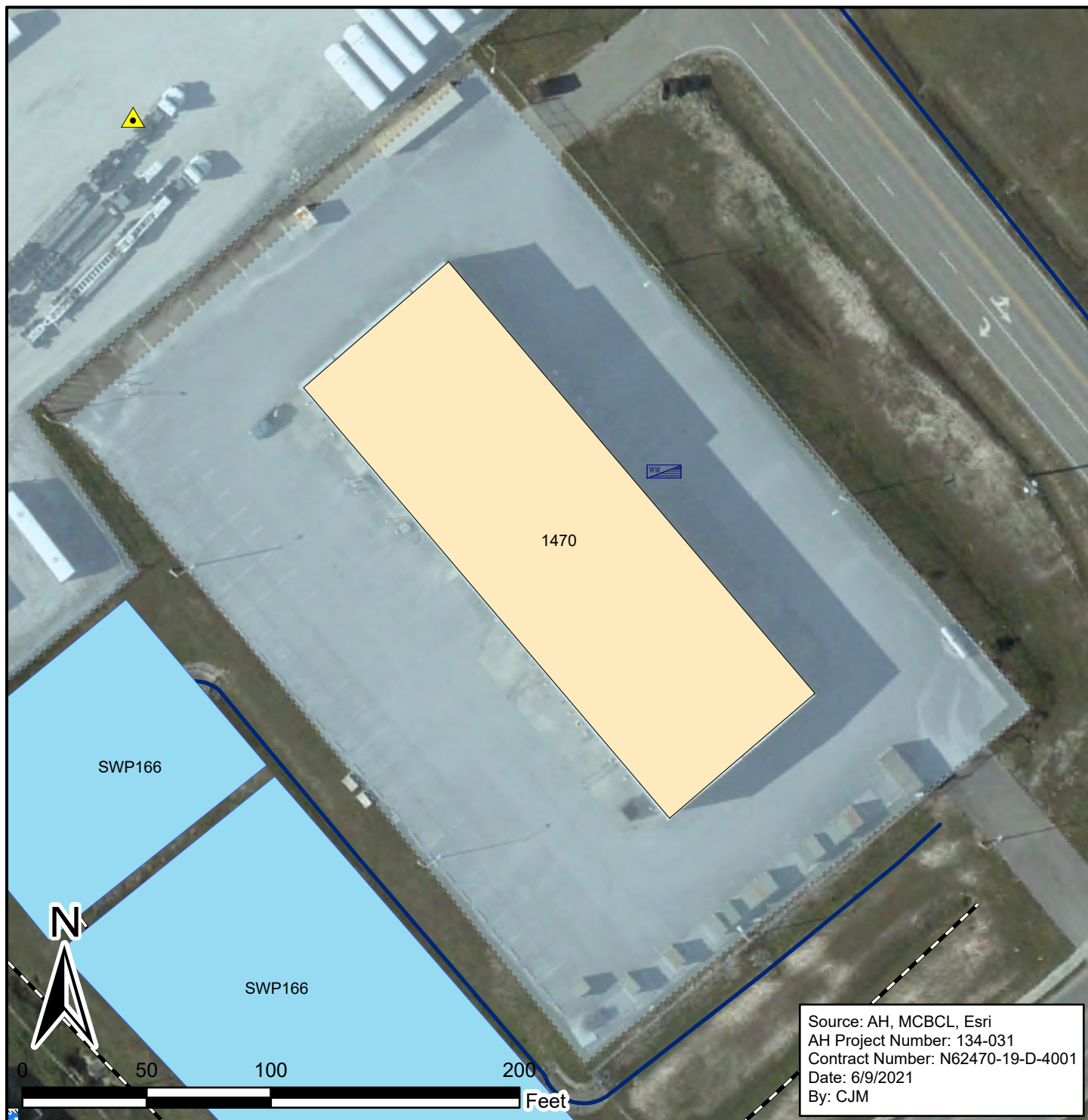


SWPPP Site Maps - Bldg. 1465

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 44



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

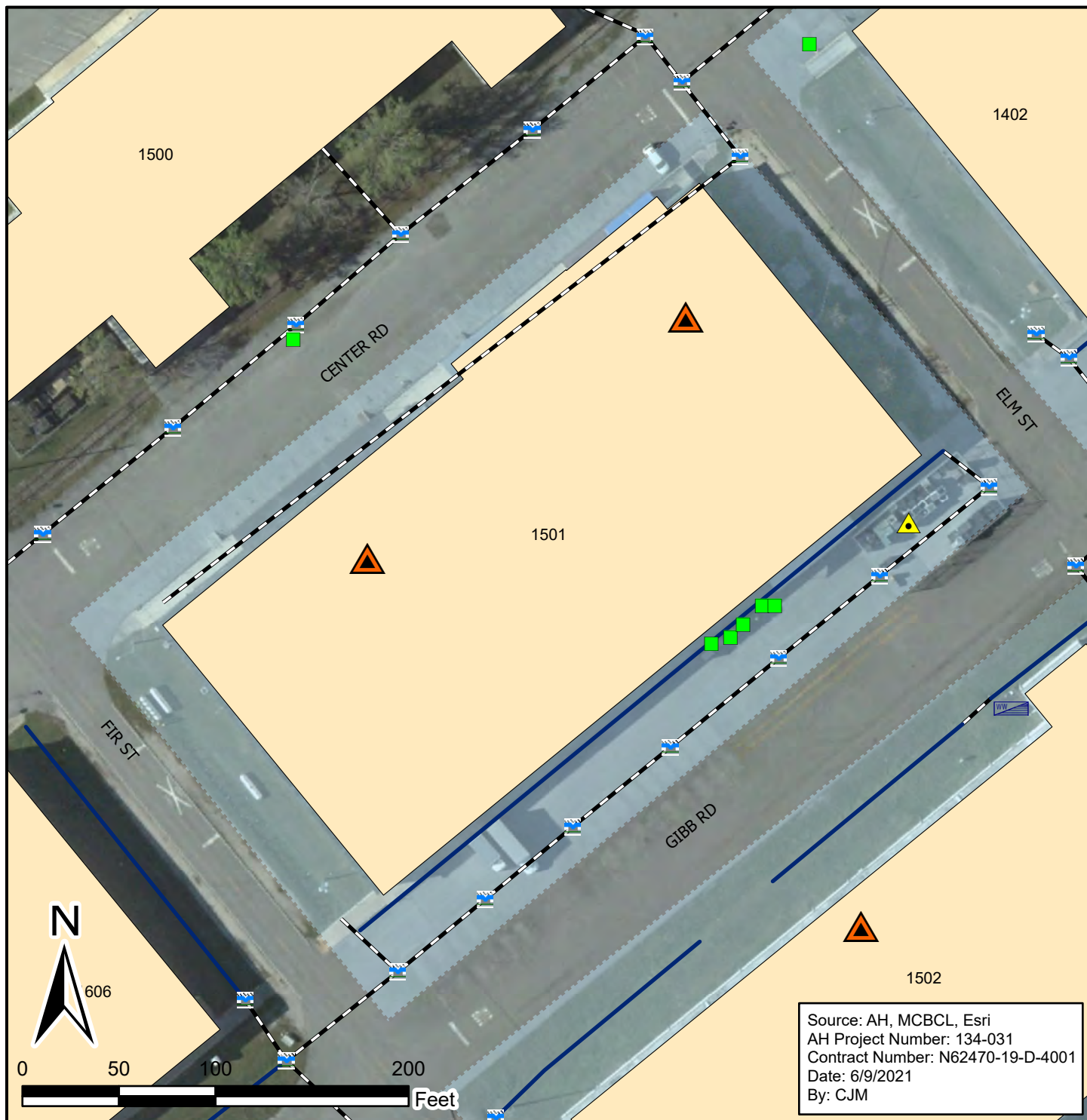


SWPPP Site Maps - Bldg. 1470

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 45



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

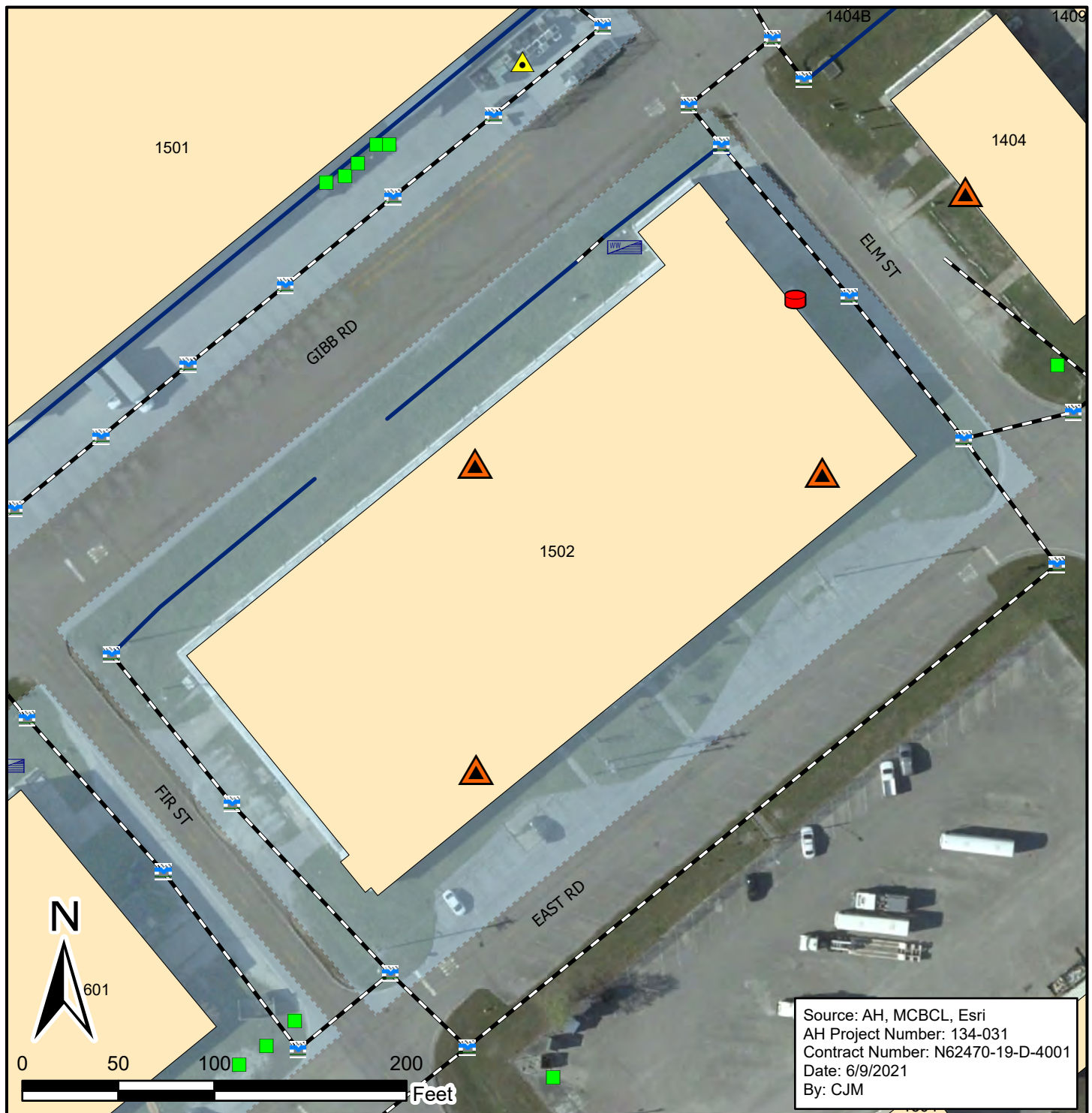


SWPPP Site Maps - Bldg. 1501

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 46



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

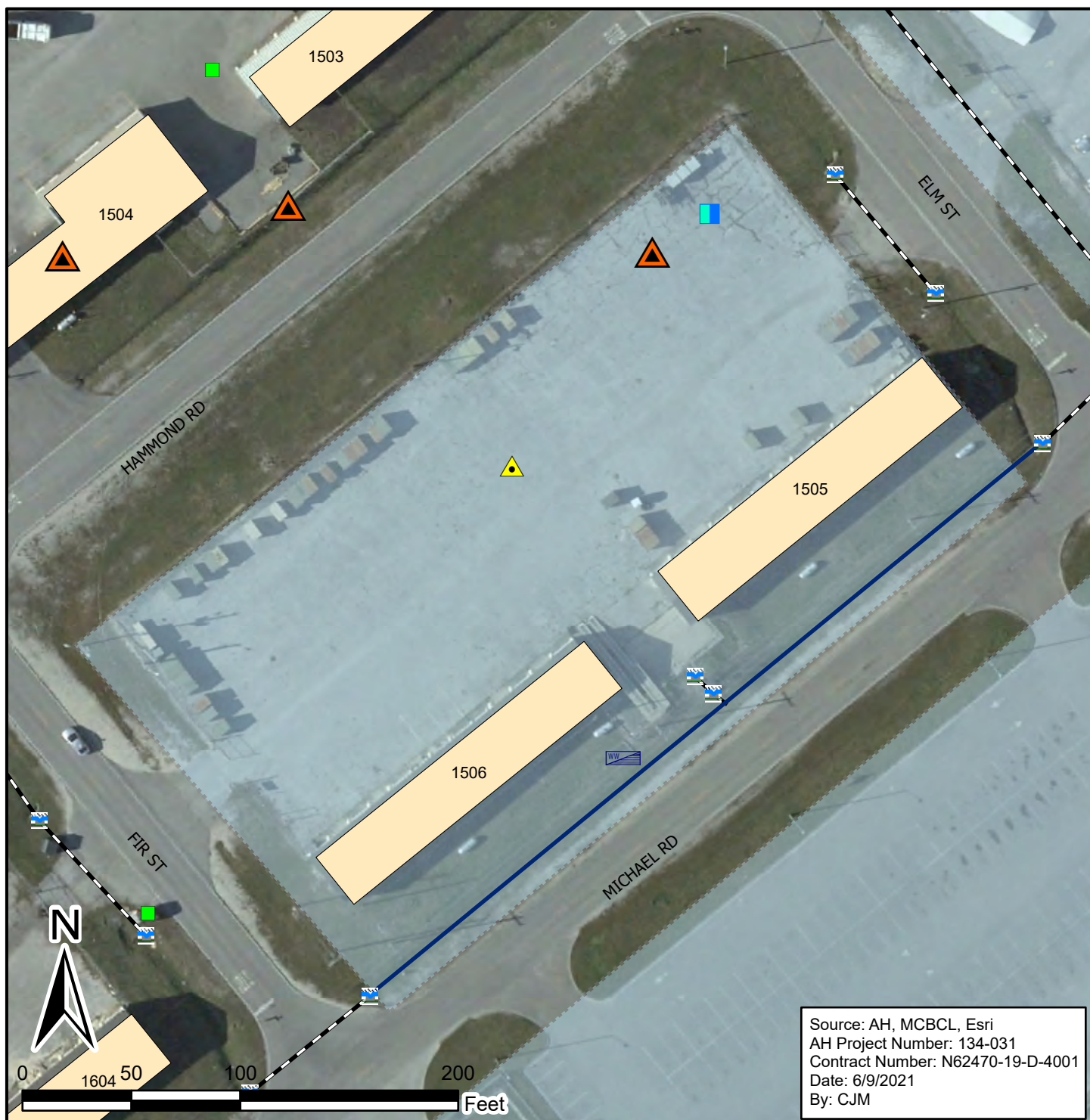


SWPPP Site Maps - Bldg. 1502

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 47



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

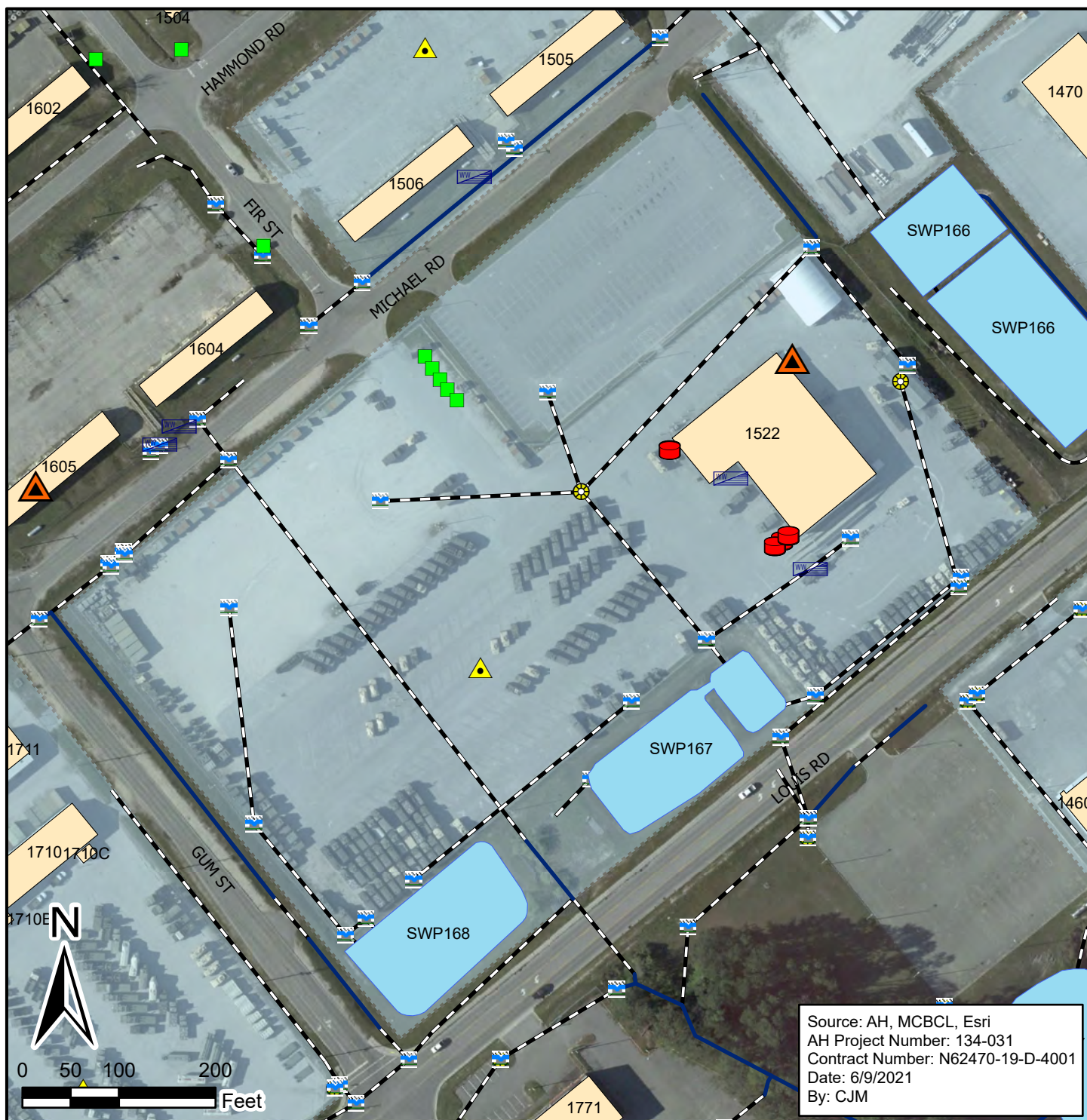


SWPPP Site Maps - Bldg. 1506

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 48



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

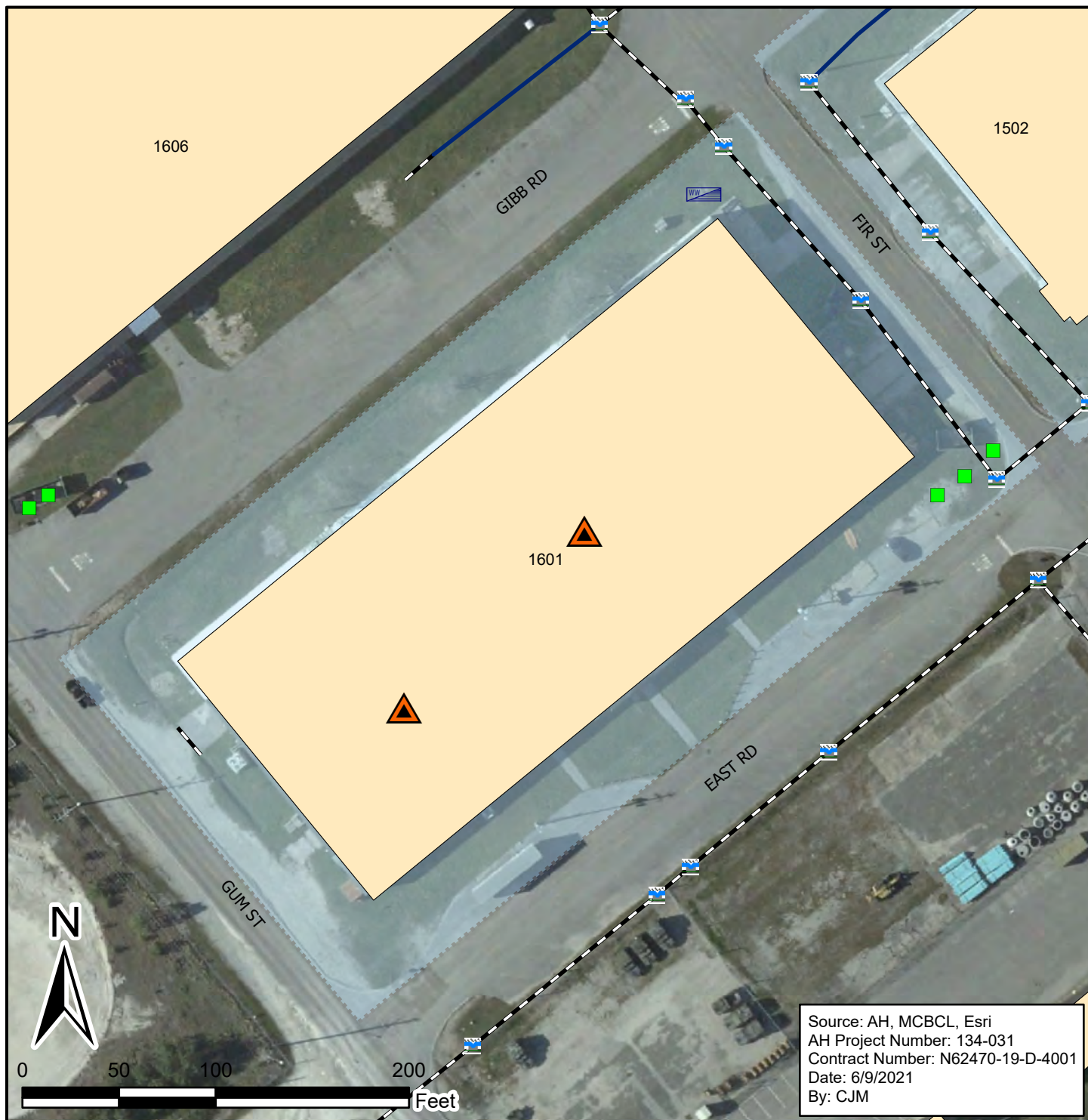


SWPPP Site Maps - Bldg. 1522

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 49



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

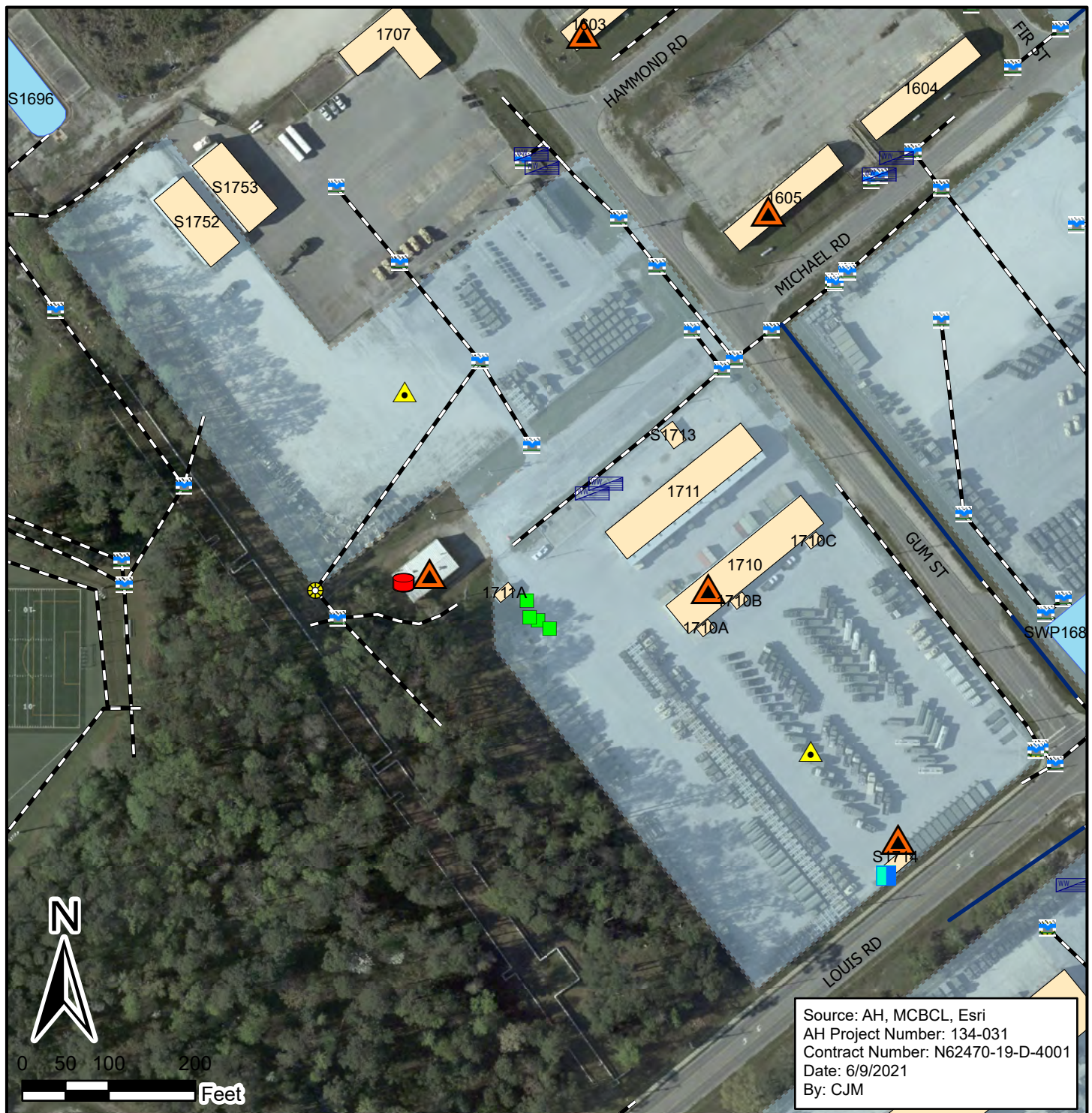


SWPPP Site Maps - Bldg. 1601

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 50



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

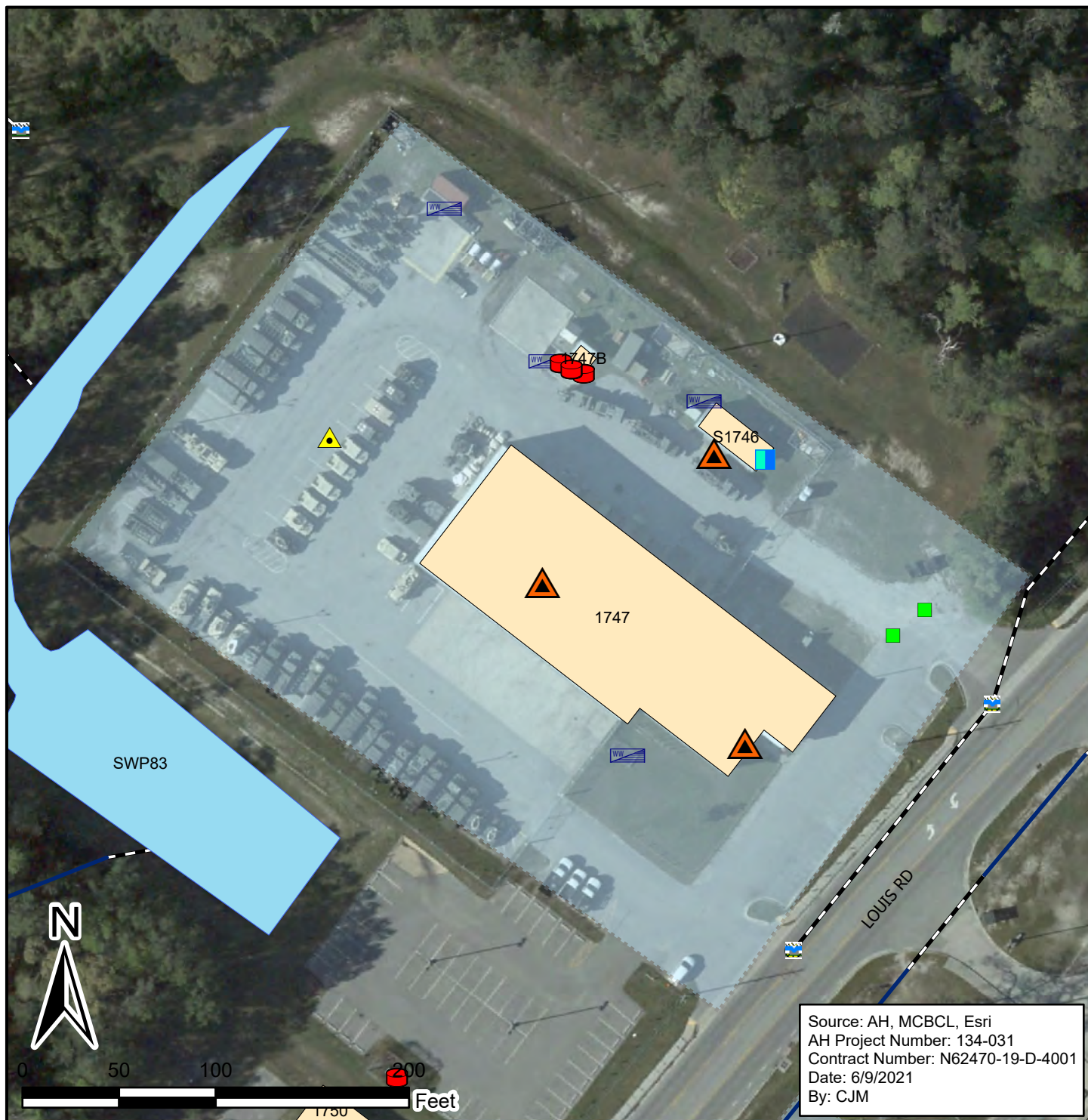


SWPPP Site Maps - Bldg. 1710

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 51



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

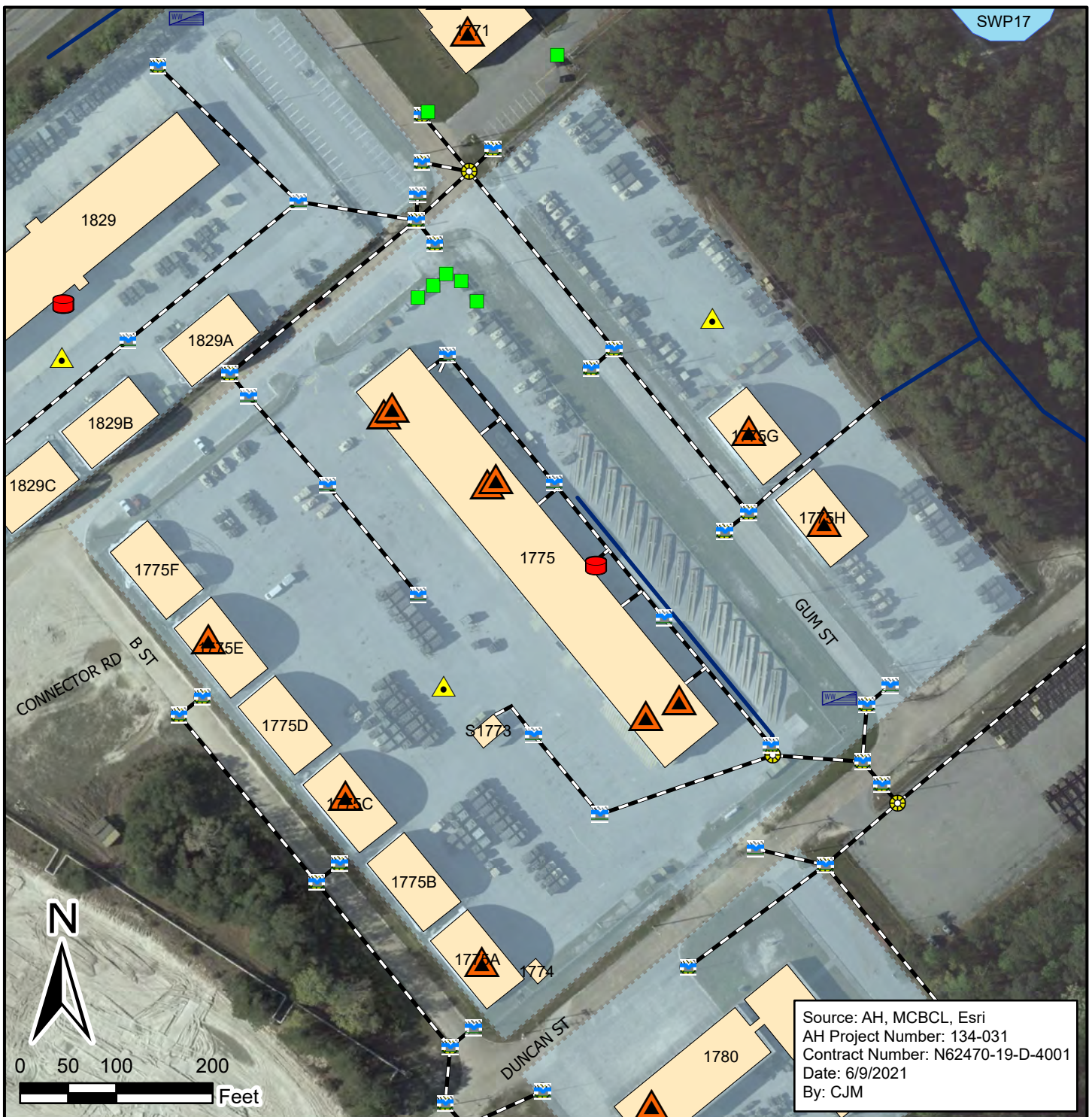


SWPPP Site Maps - Bldg. 1747

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 52



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

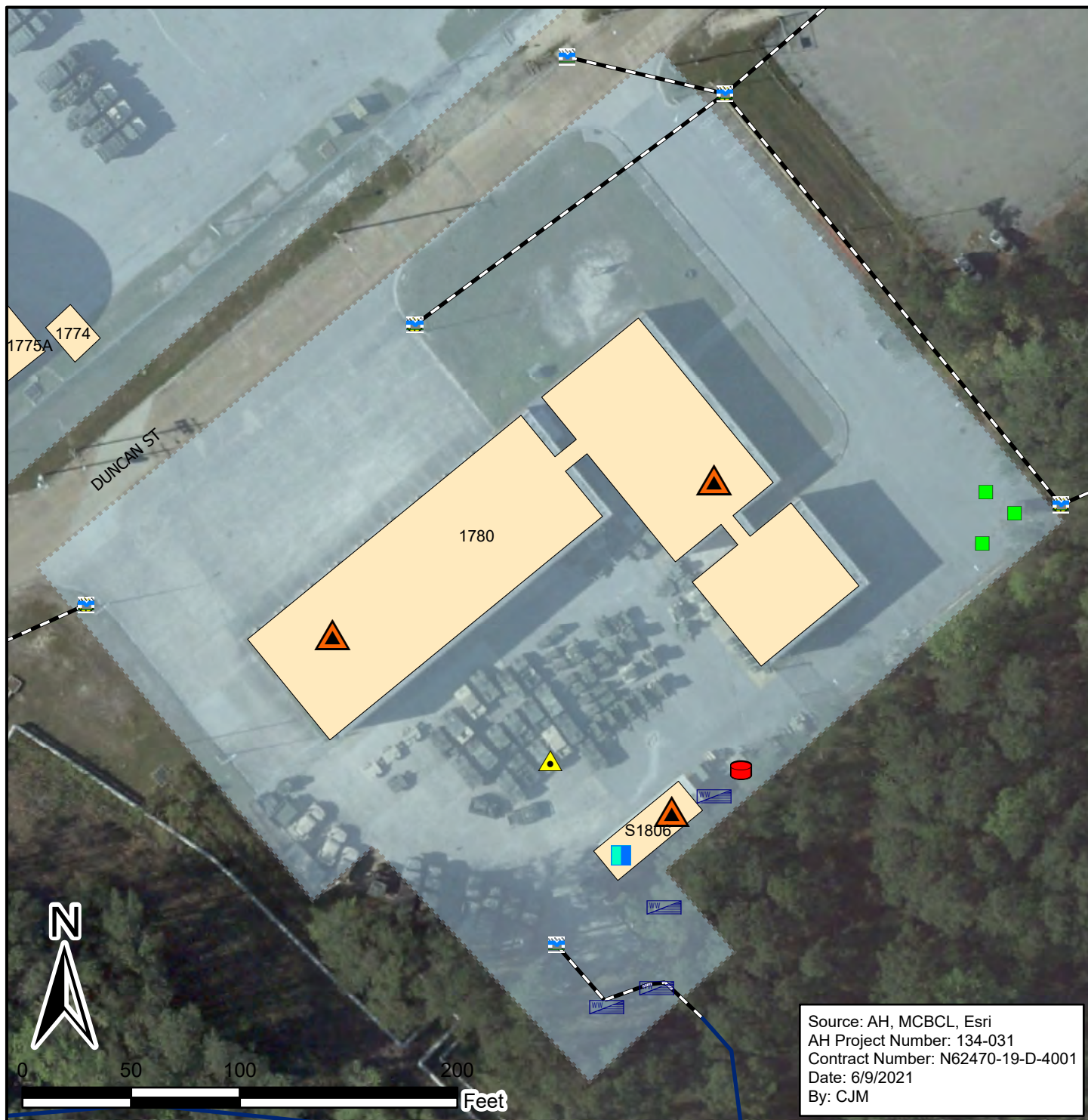


SWPPP Site Maps - Bldg. 1775

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 53



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

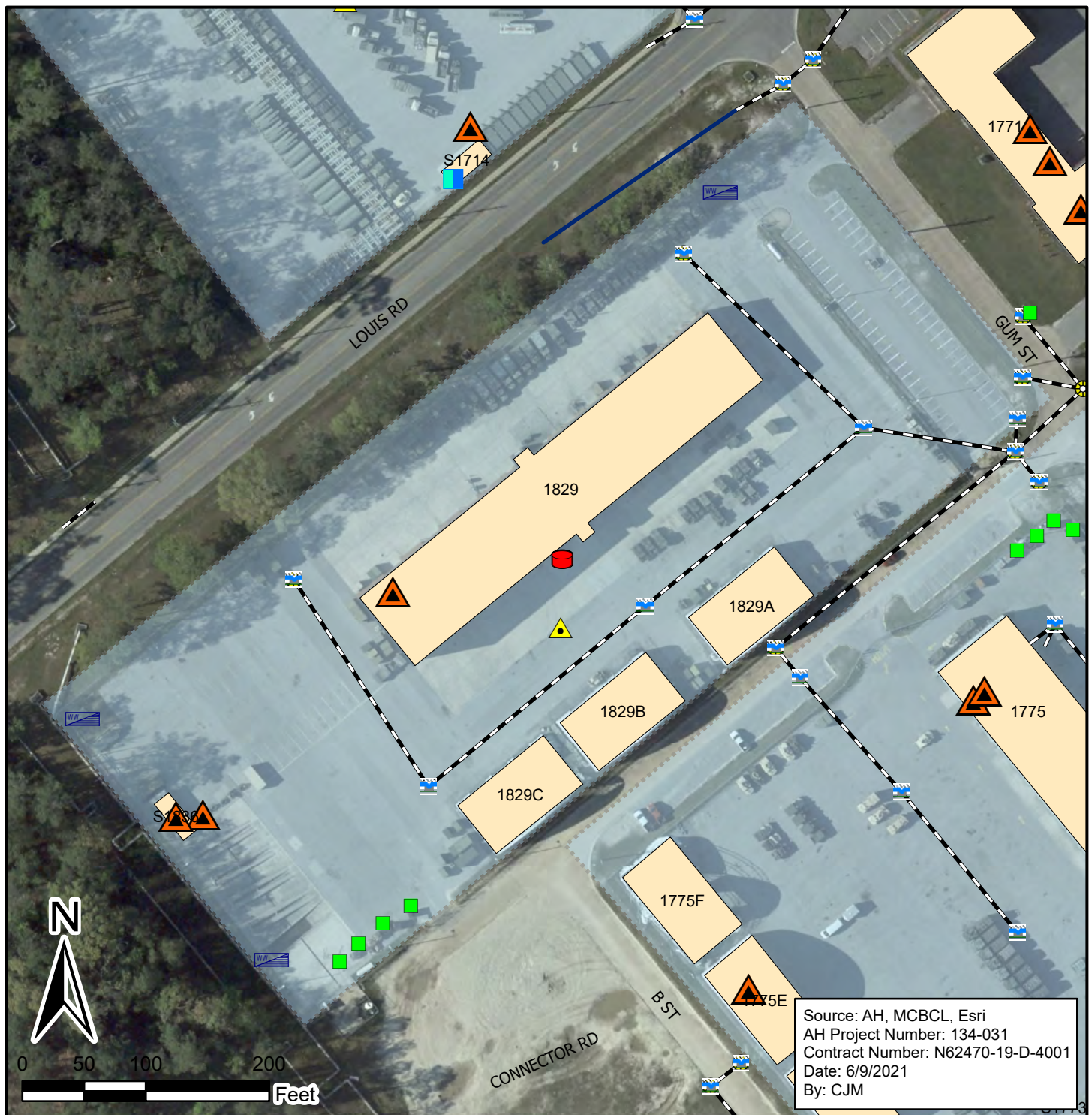


SWPPP Site Maps - Bldg. 1780

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 54



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1829

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 55



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

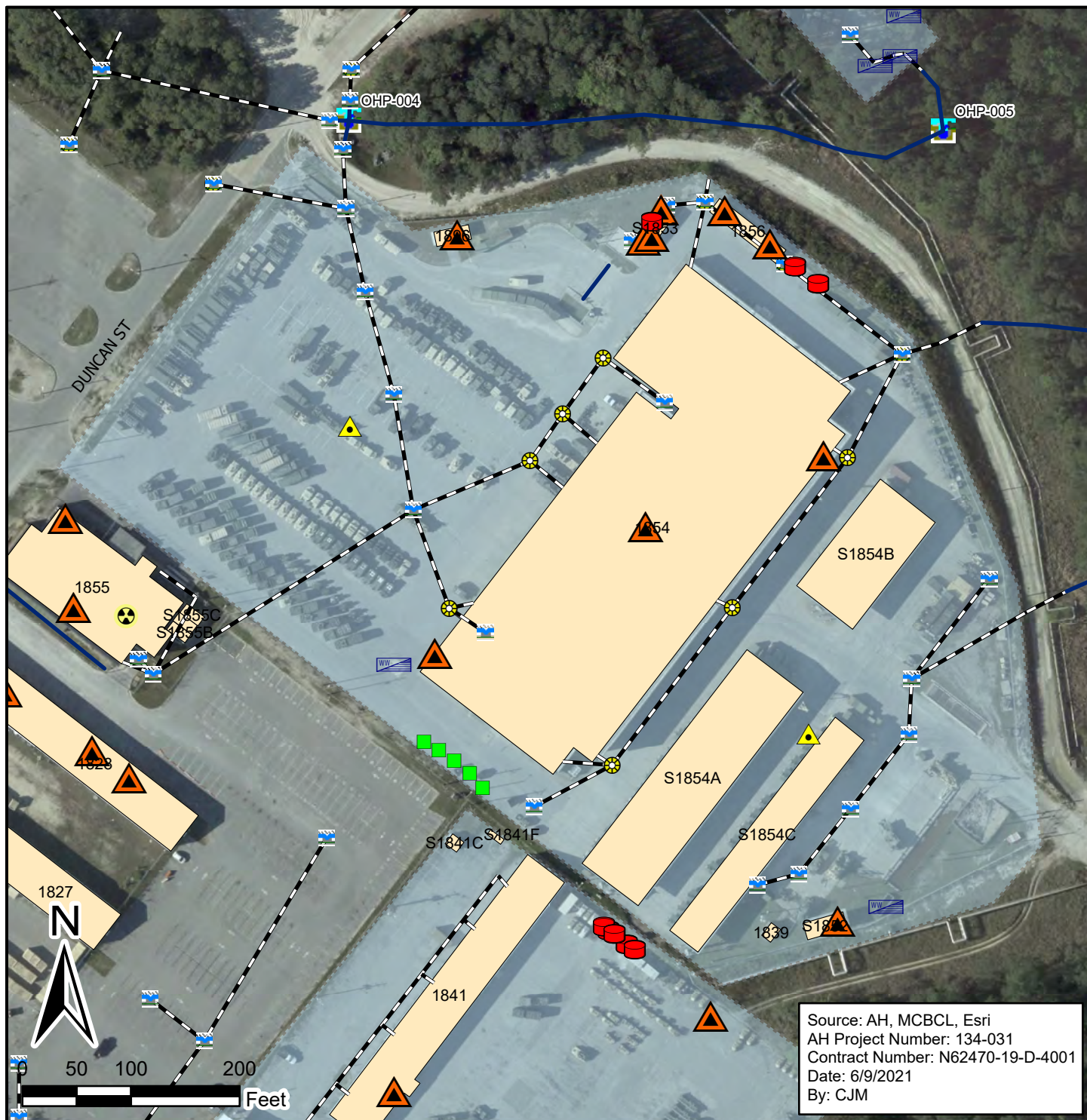


SWPPP Site Maps - Bldg. 1841

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 56



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

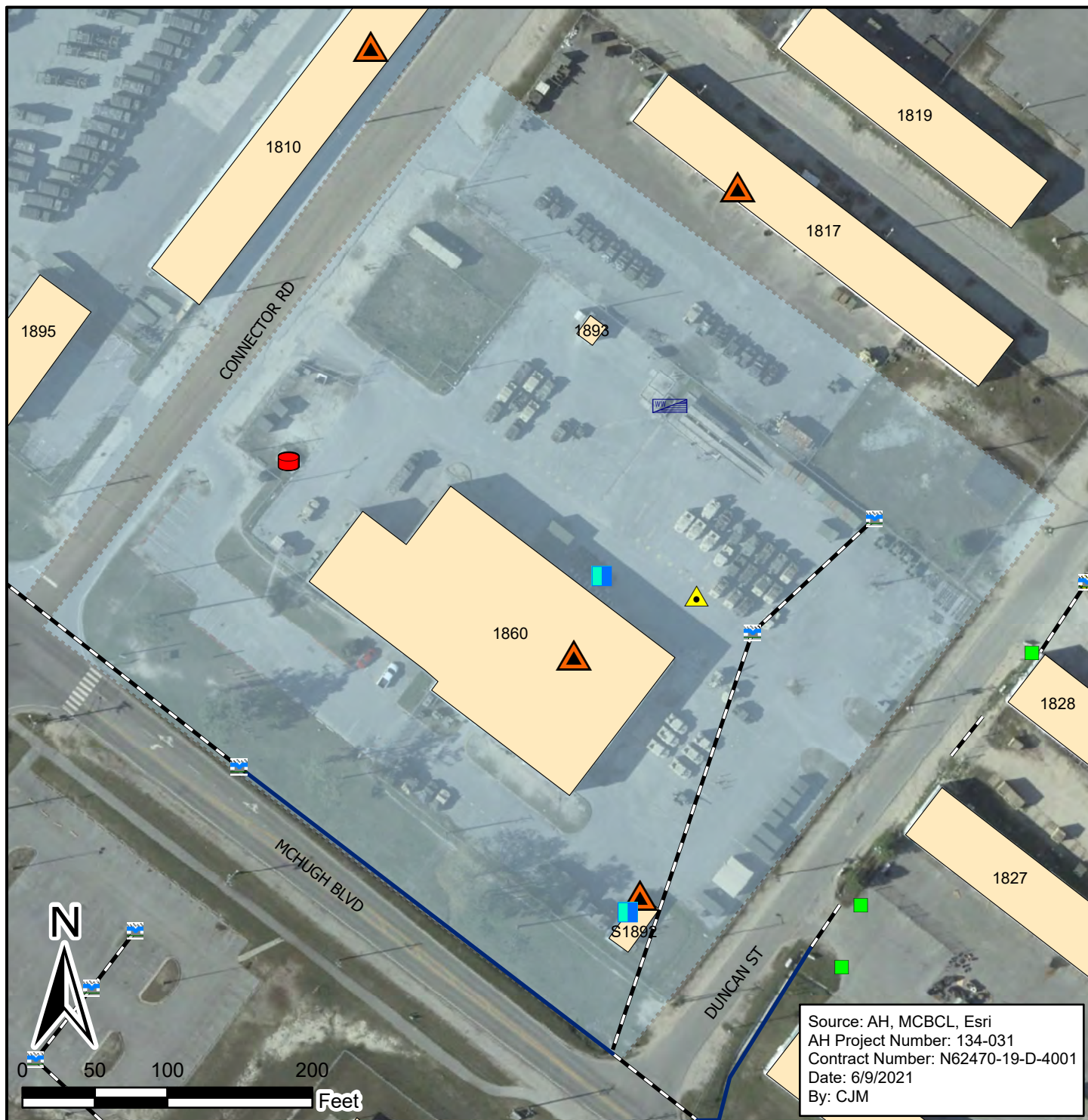


SWPPP Site Maps - Bldg. 1854

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 57



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

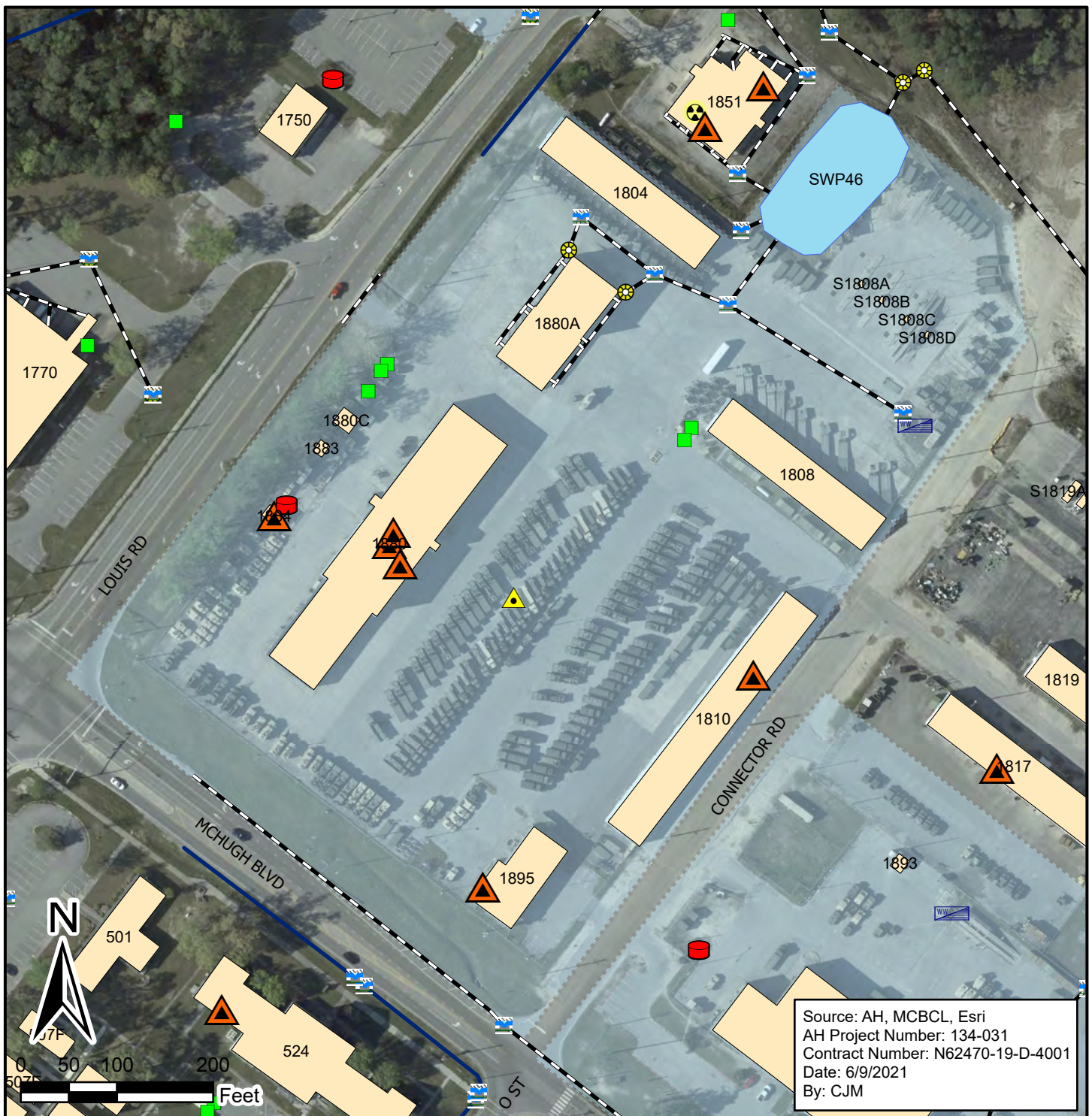


SWPPP Site Maps - Bldg. 1860

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 58



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 1880

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 59

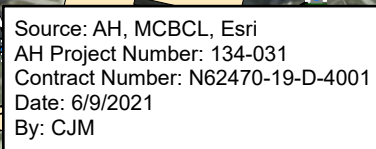


Figure
J - 60

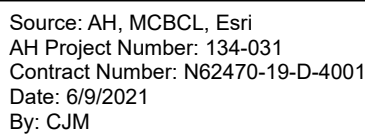
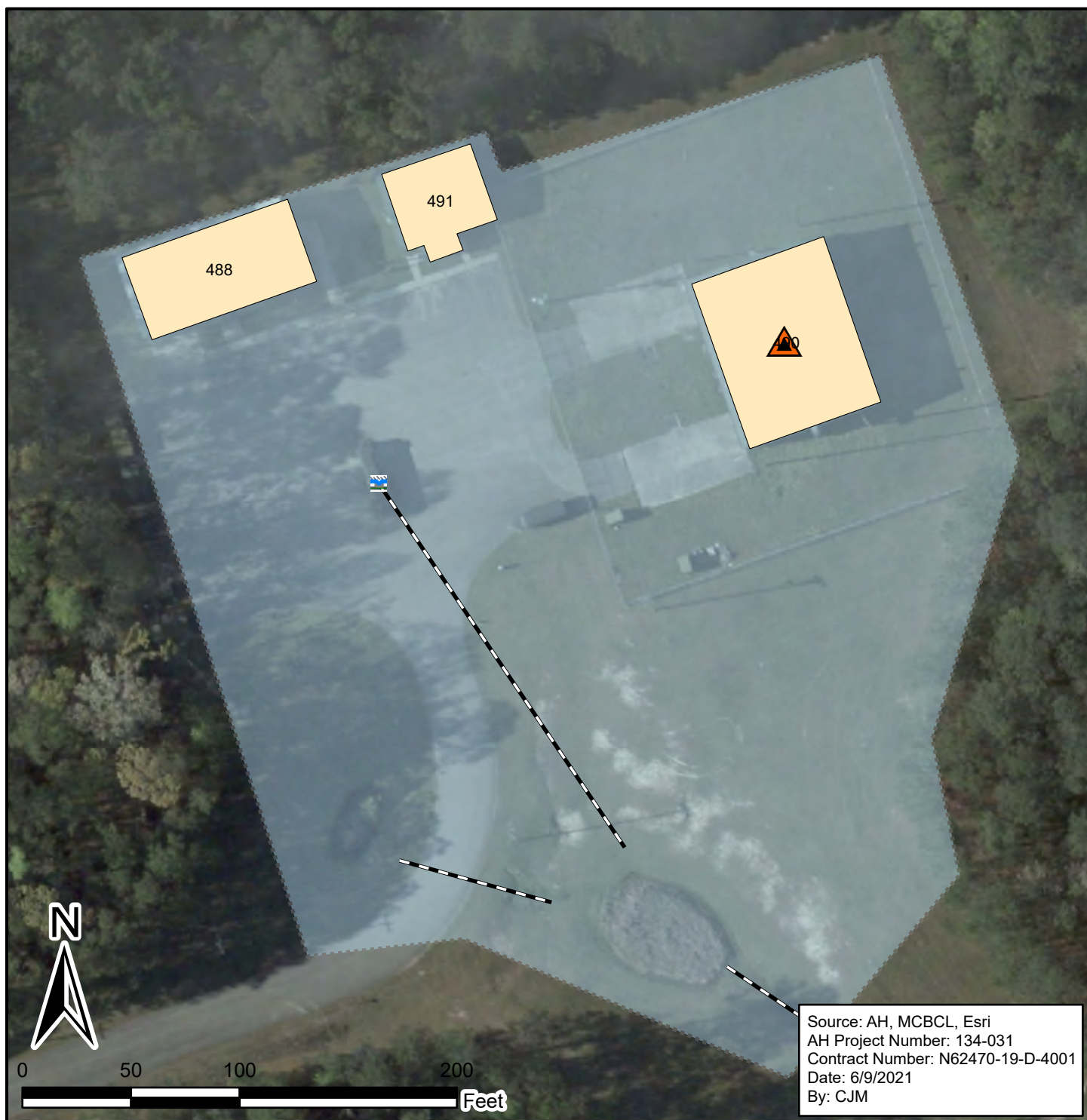


Figure
J - 61



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

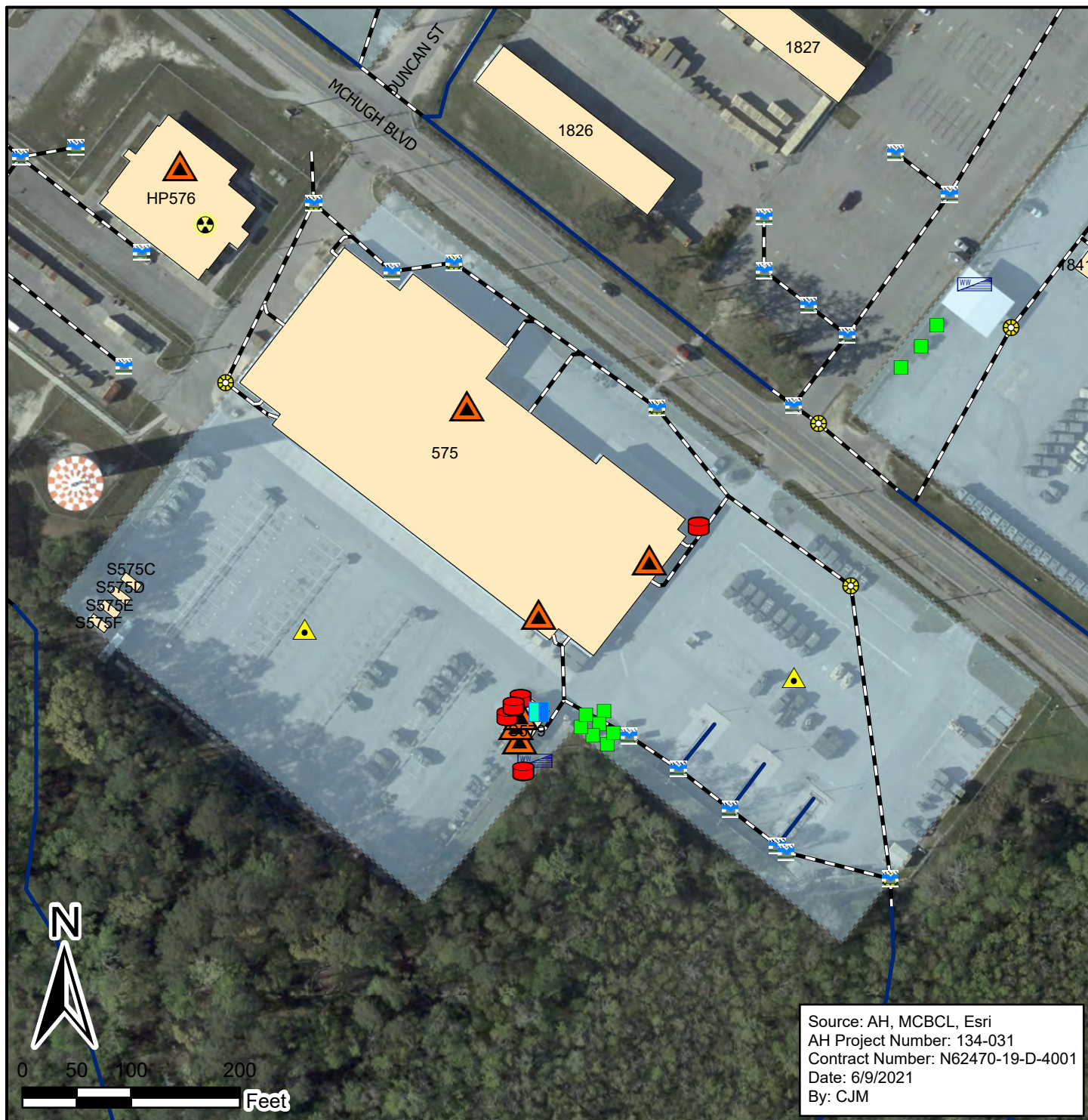


SWPPP Site Maps - Bldg. 490

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 62



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

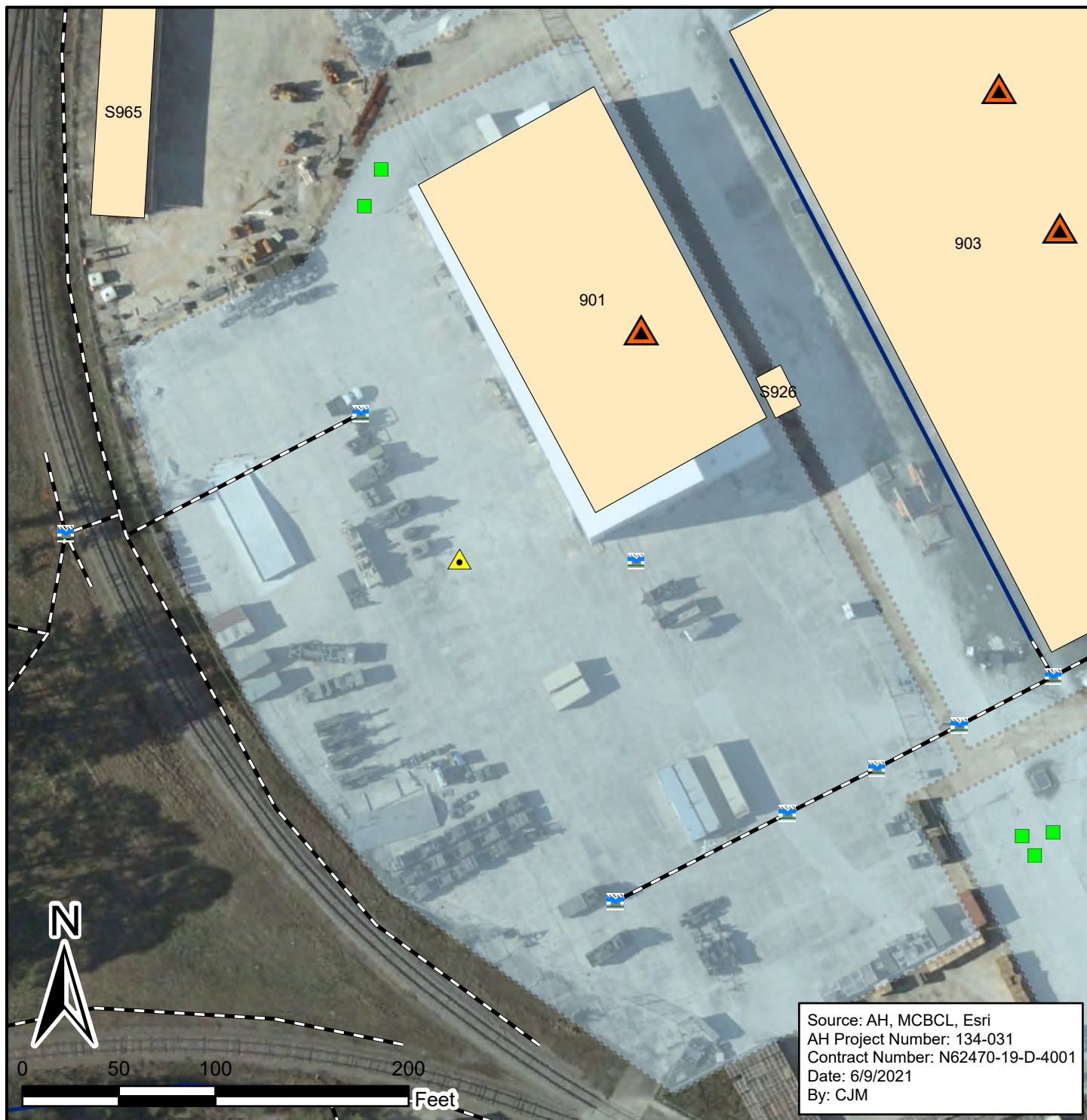


SWPPP Site Maps - Bldg. 575

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 63



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

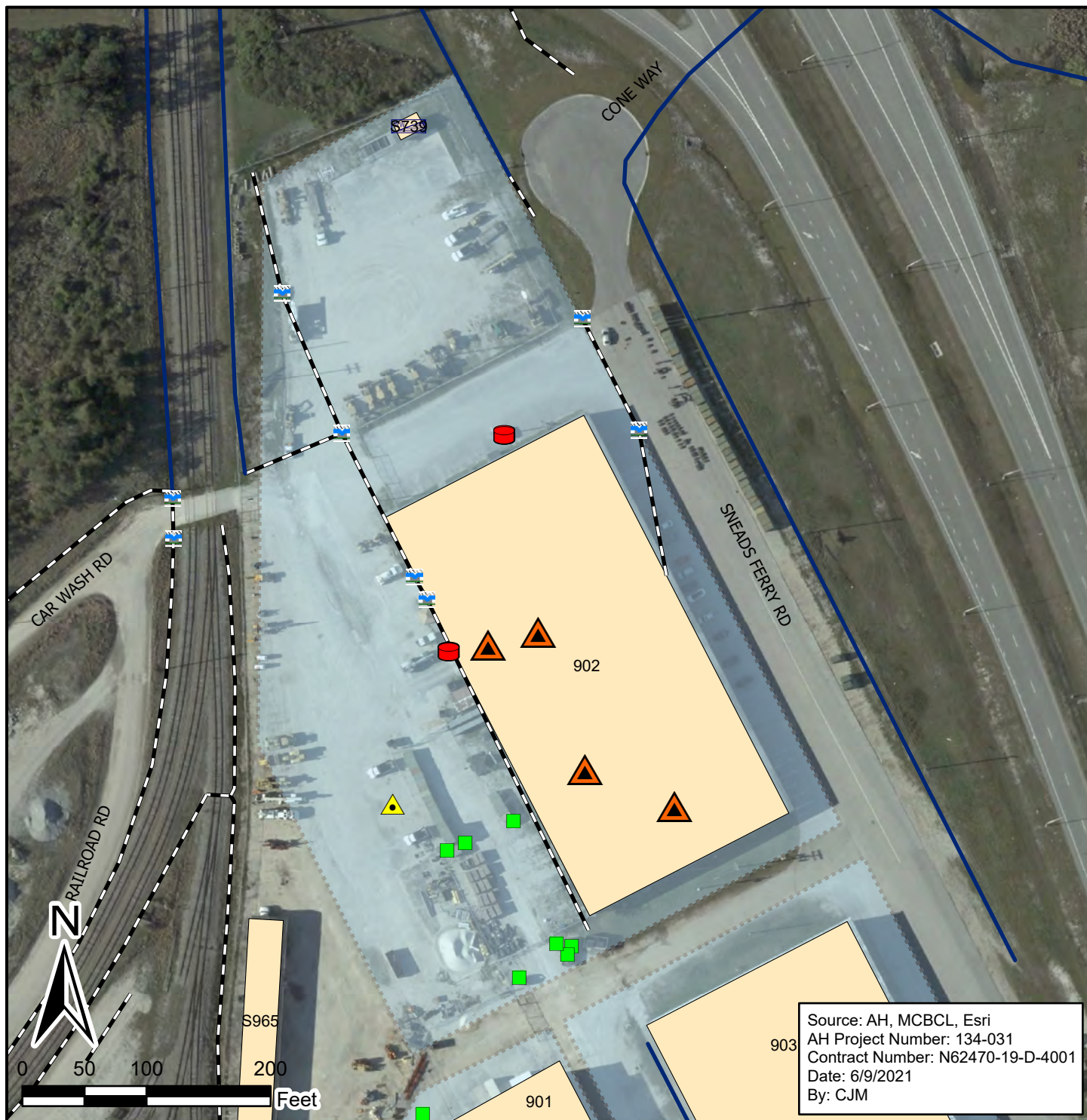


SWPPP Site Maps - Bldg. 901

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 64



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

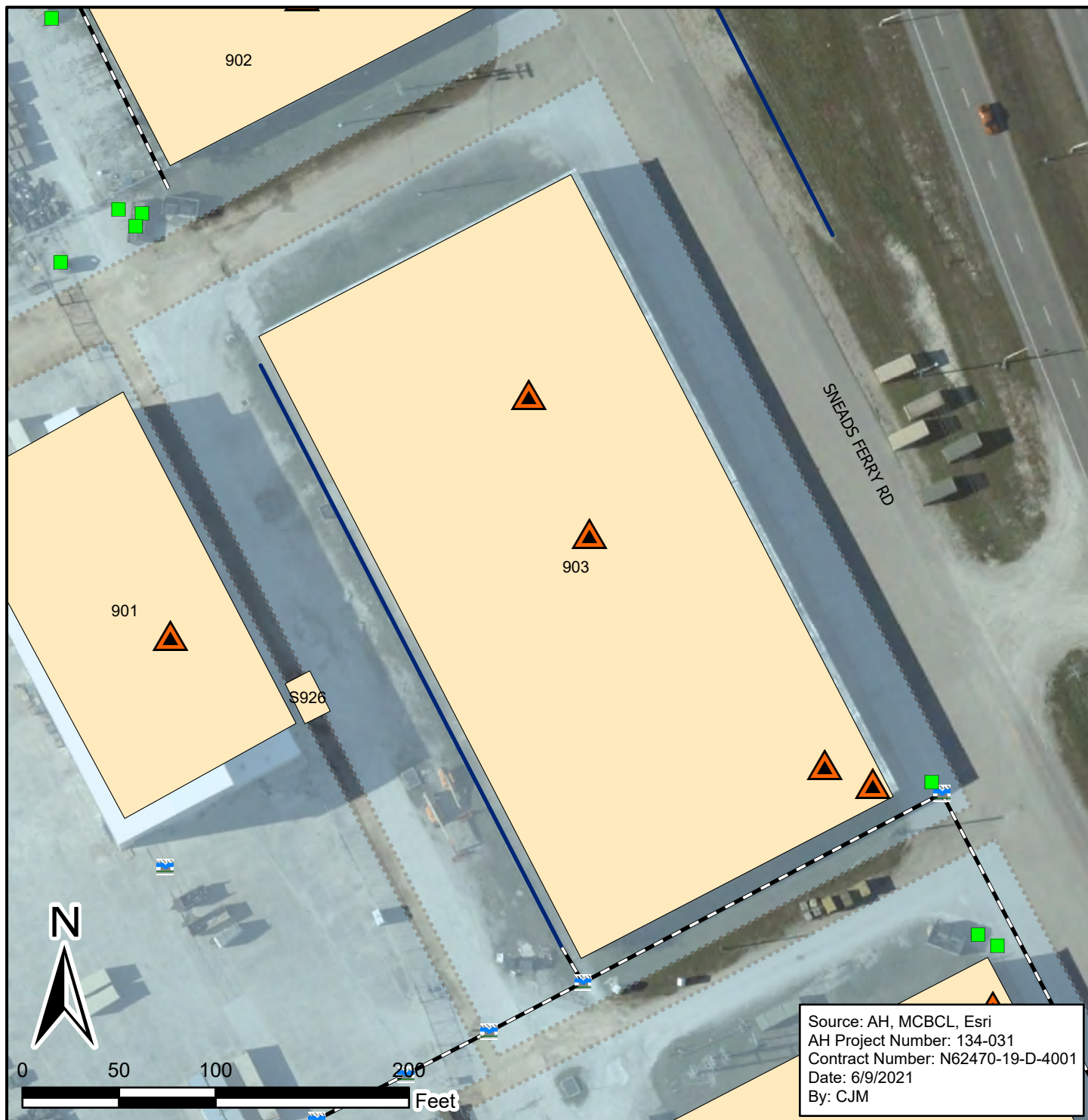


SWPPP Site Maps - Bldg. 902

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 65



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

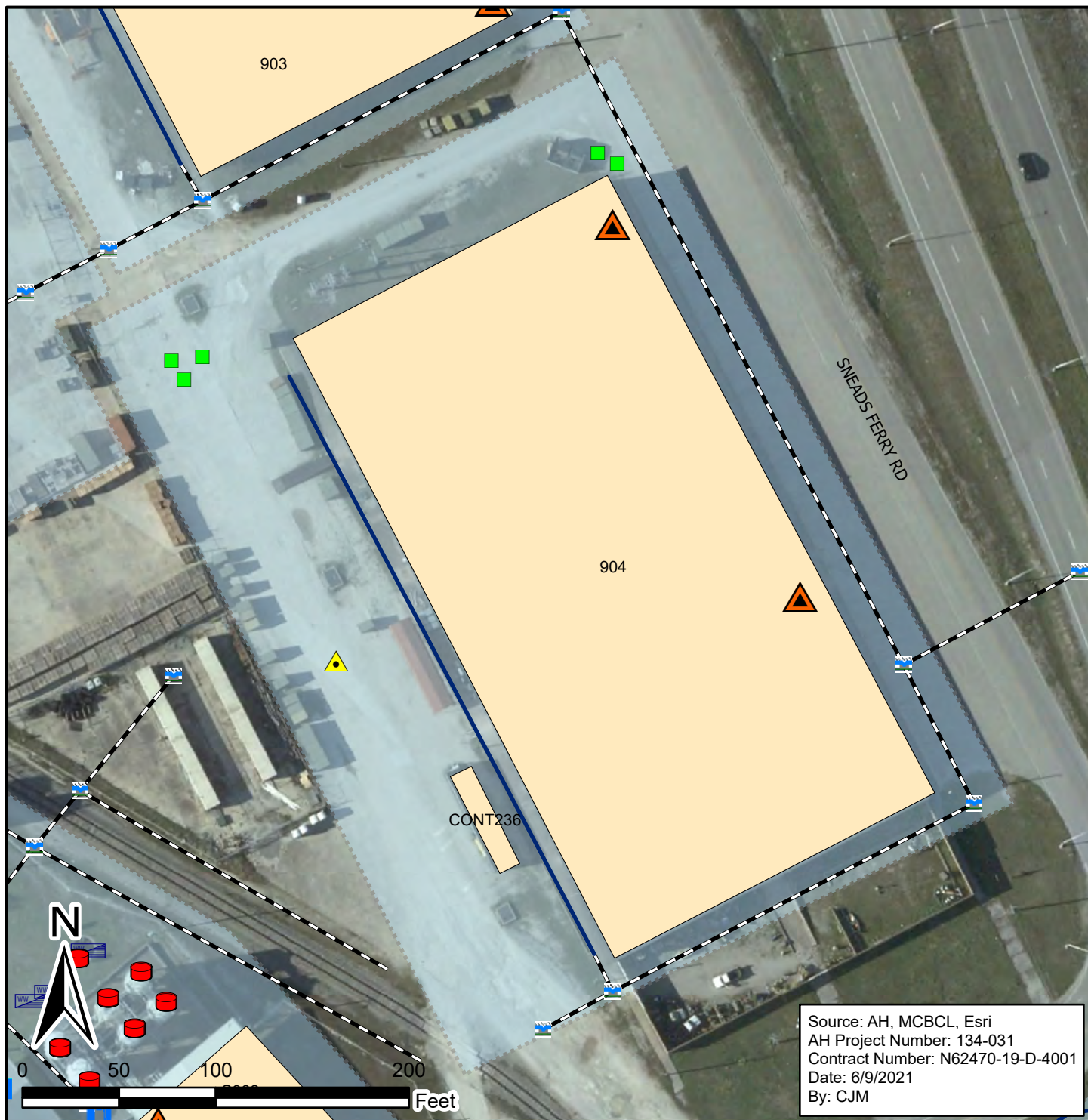


SWPPP Site Maps - Bldg. 903

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 66



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

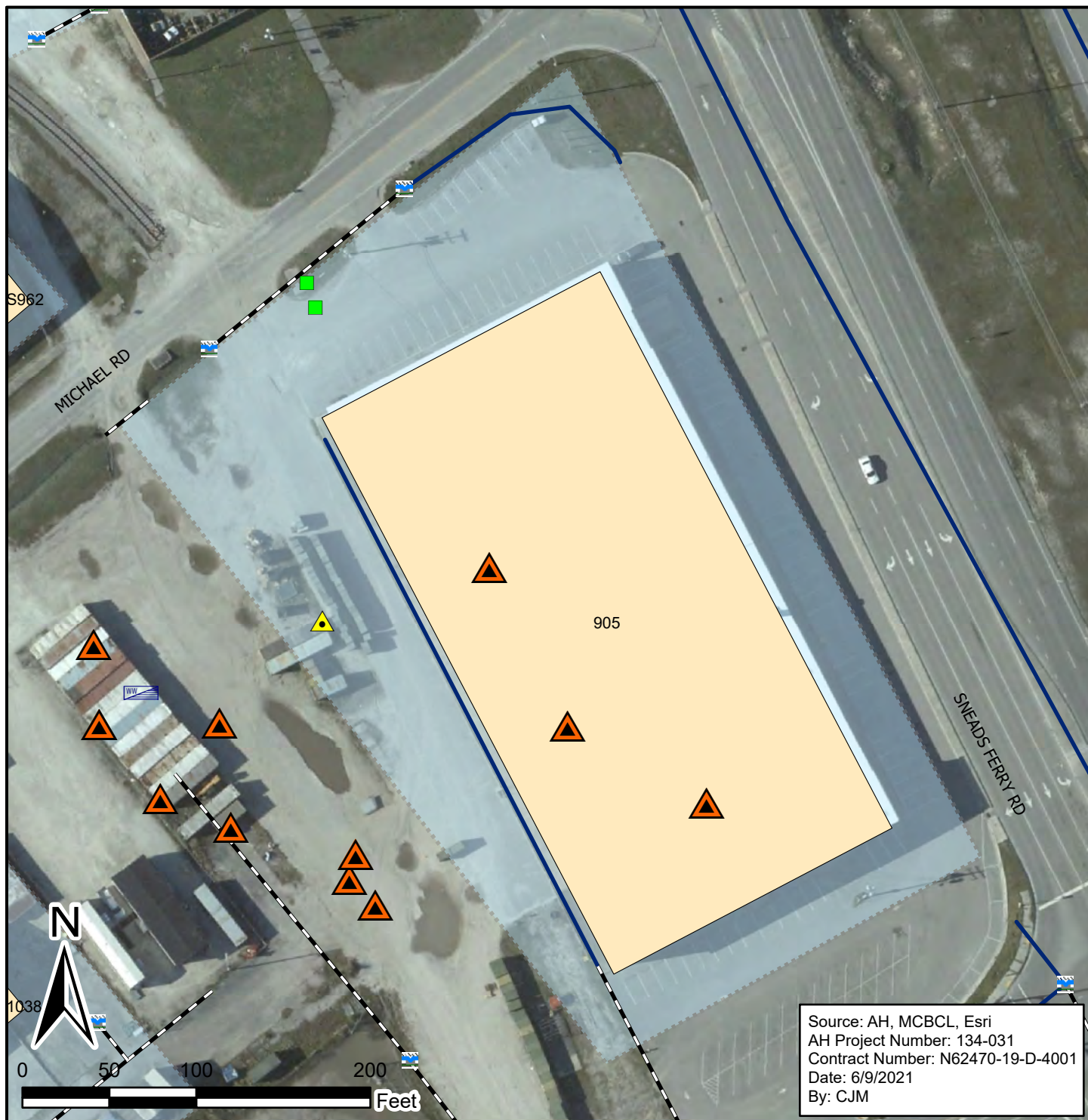


SWPPP Site Maps - Bldg. 904

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 67



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

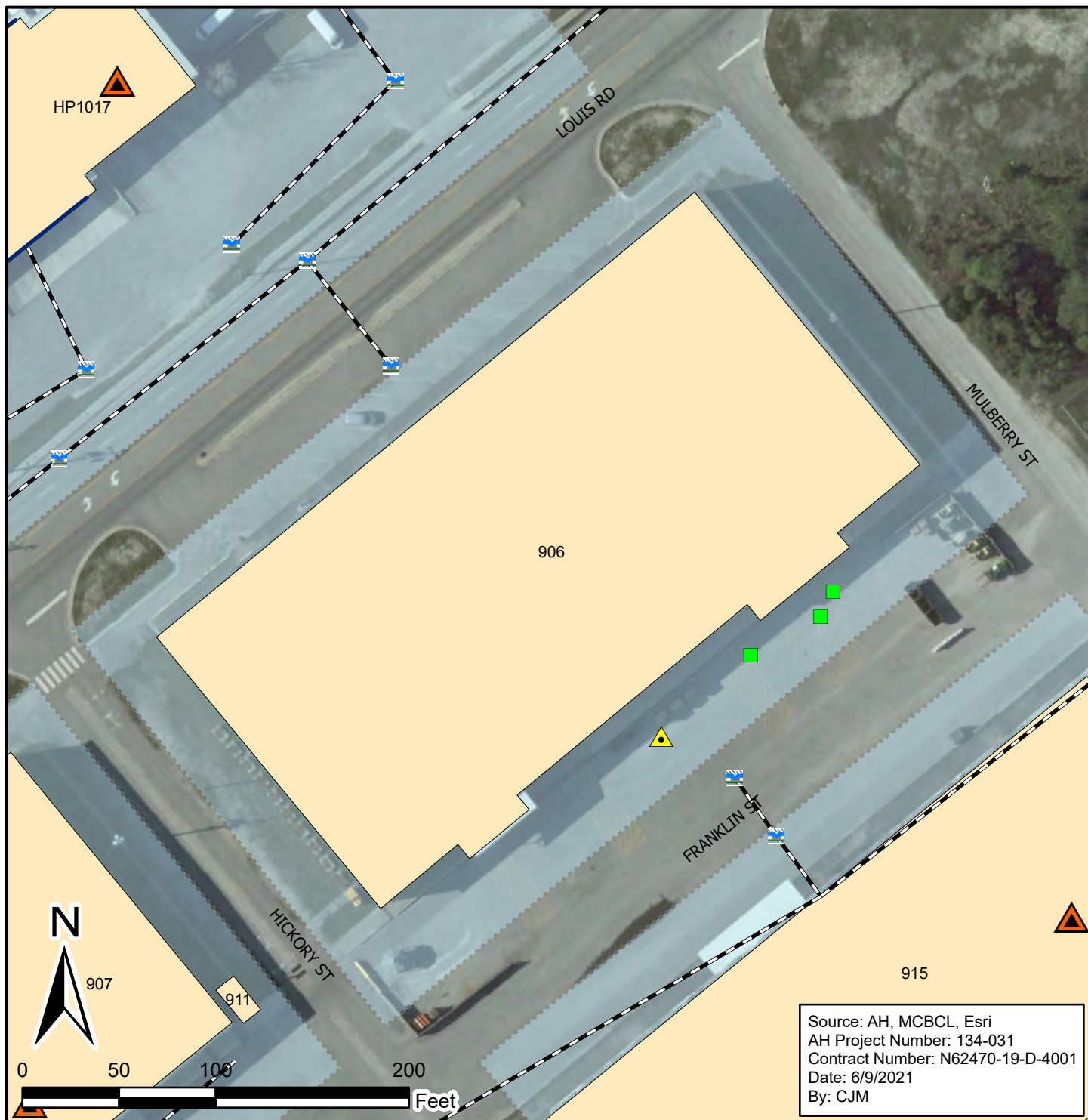


SWPPP Site Maps - Bldg. 905

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 68



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

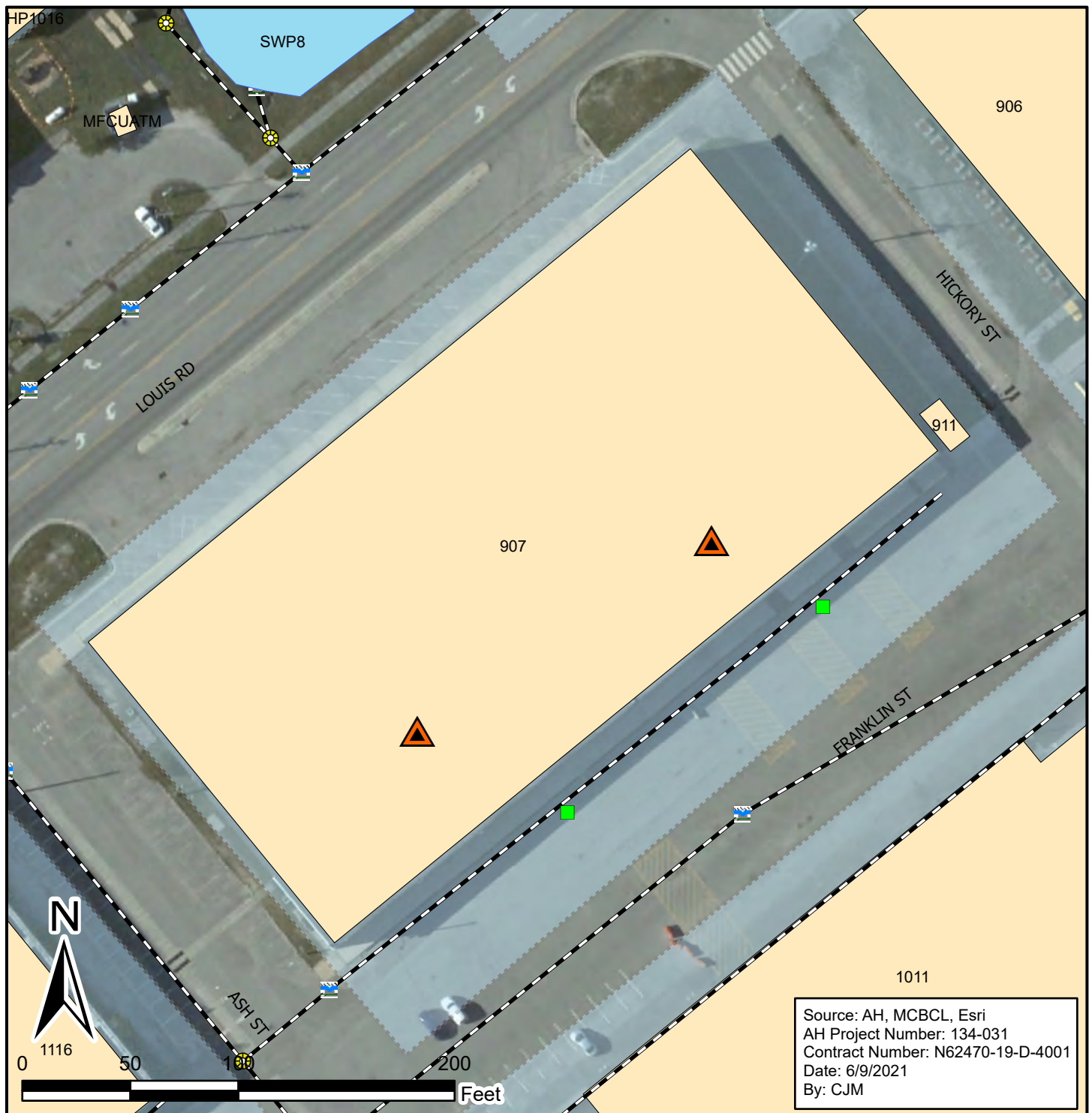


SWPPP Site Maps - Bldg. 906

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 69



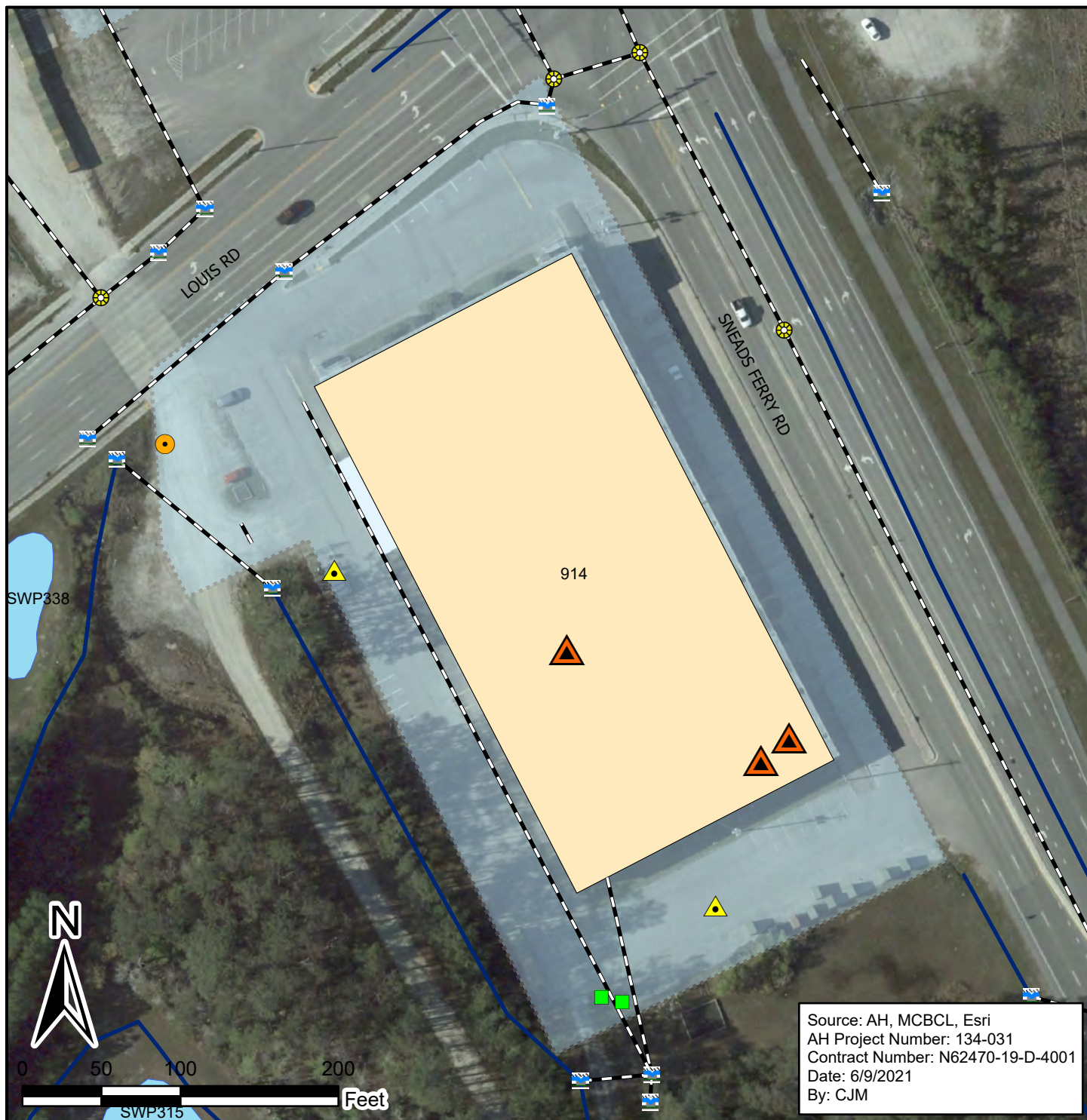
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 907
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 70



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

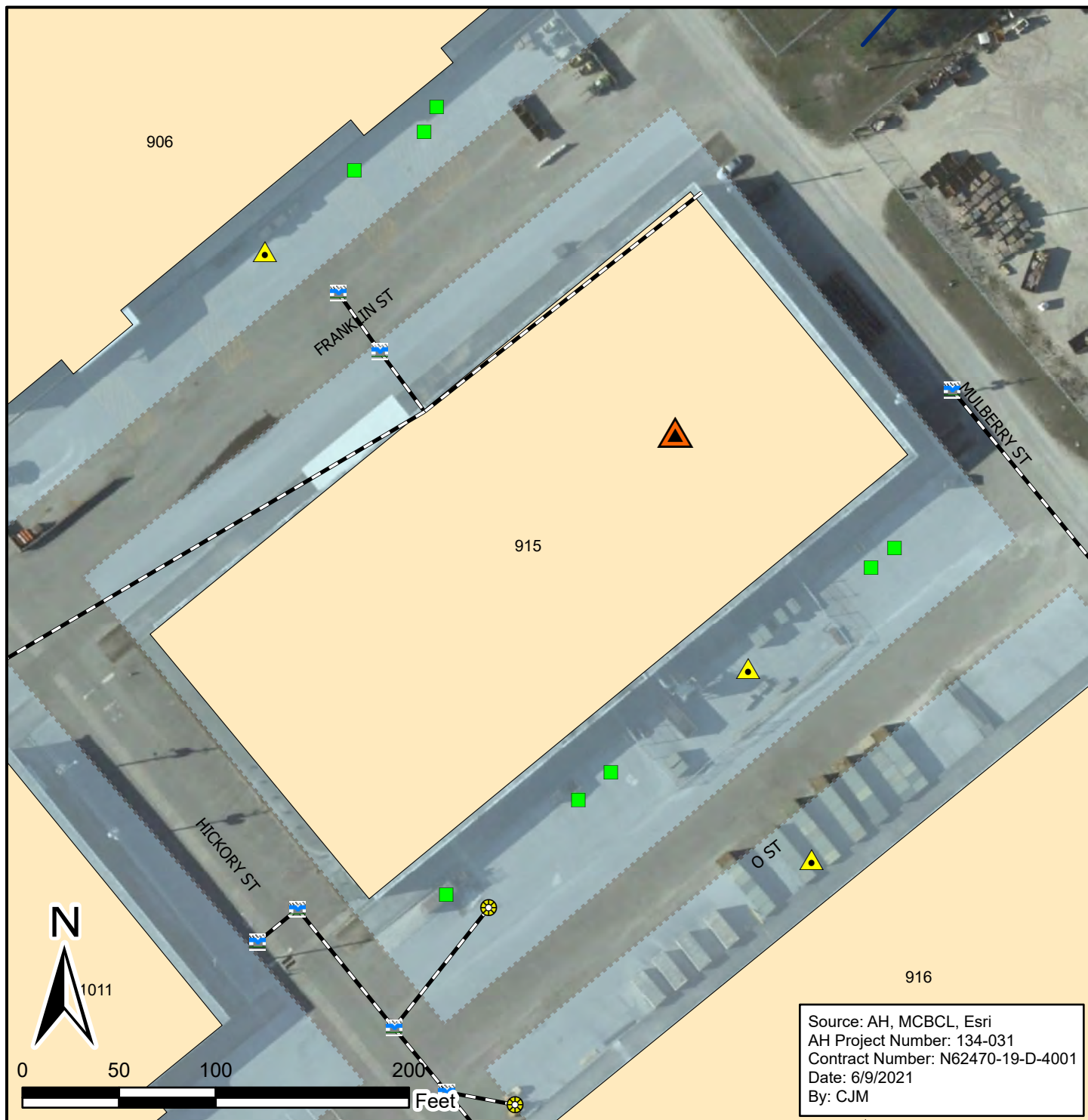


SWPPP Site Maps - Bldg. 914

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 71



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

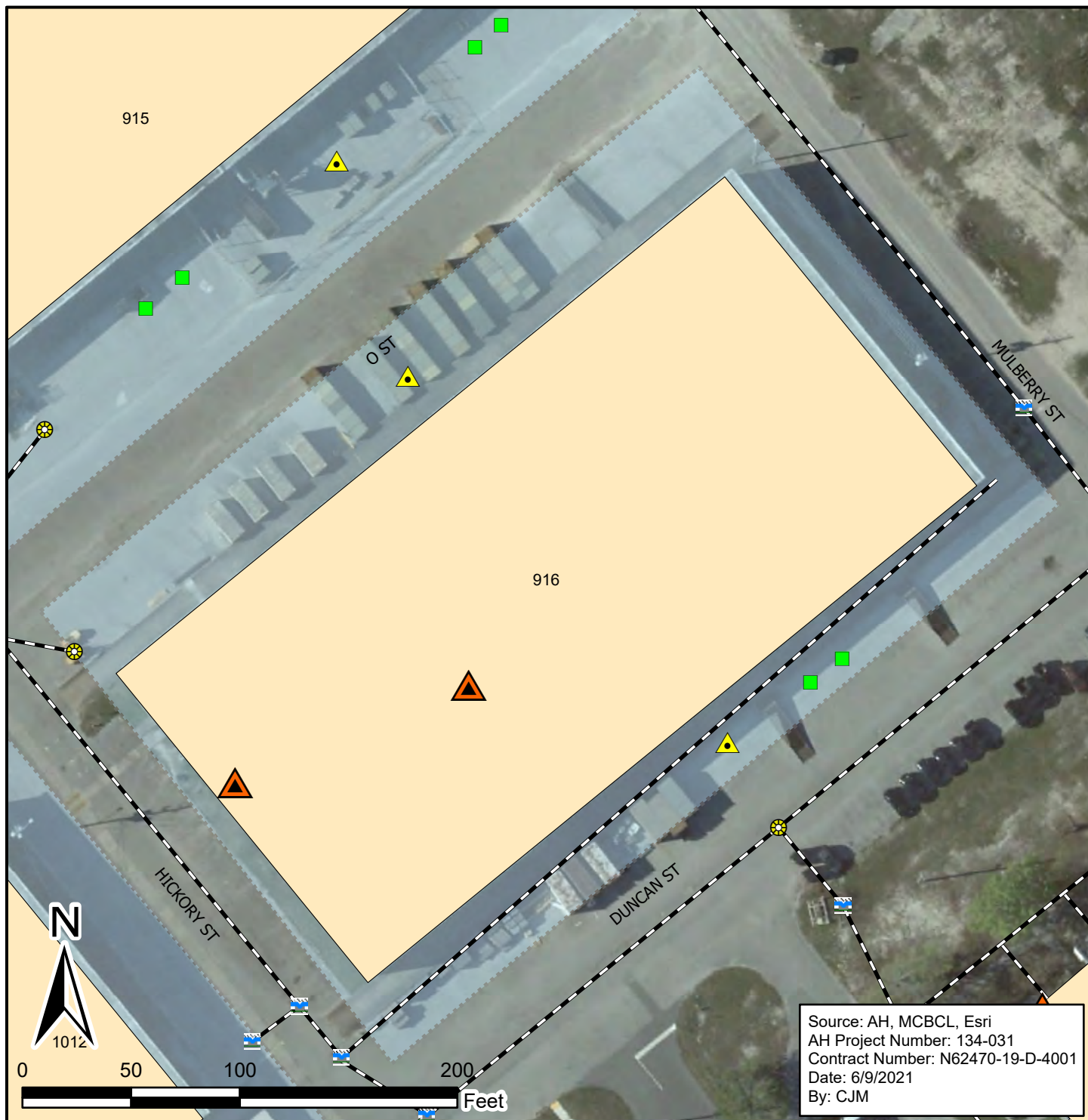


SWPPP Site Maps - Bldg. 915

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 72



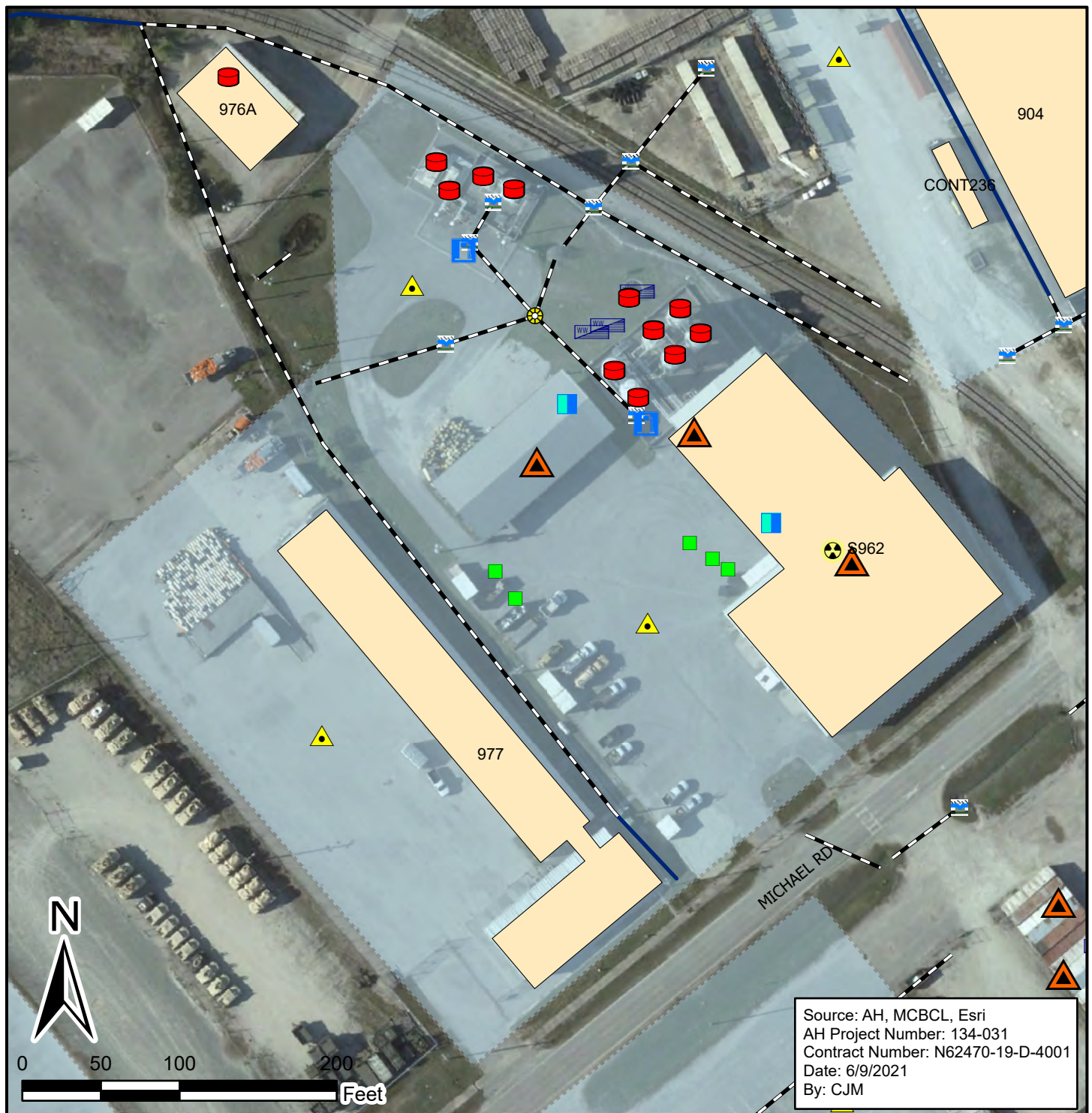
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 916
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 73



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

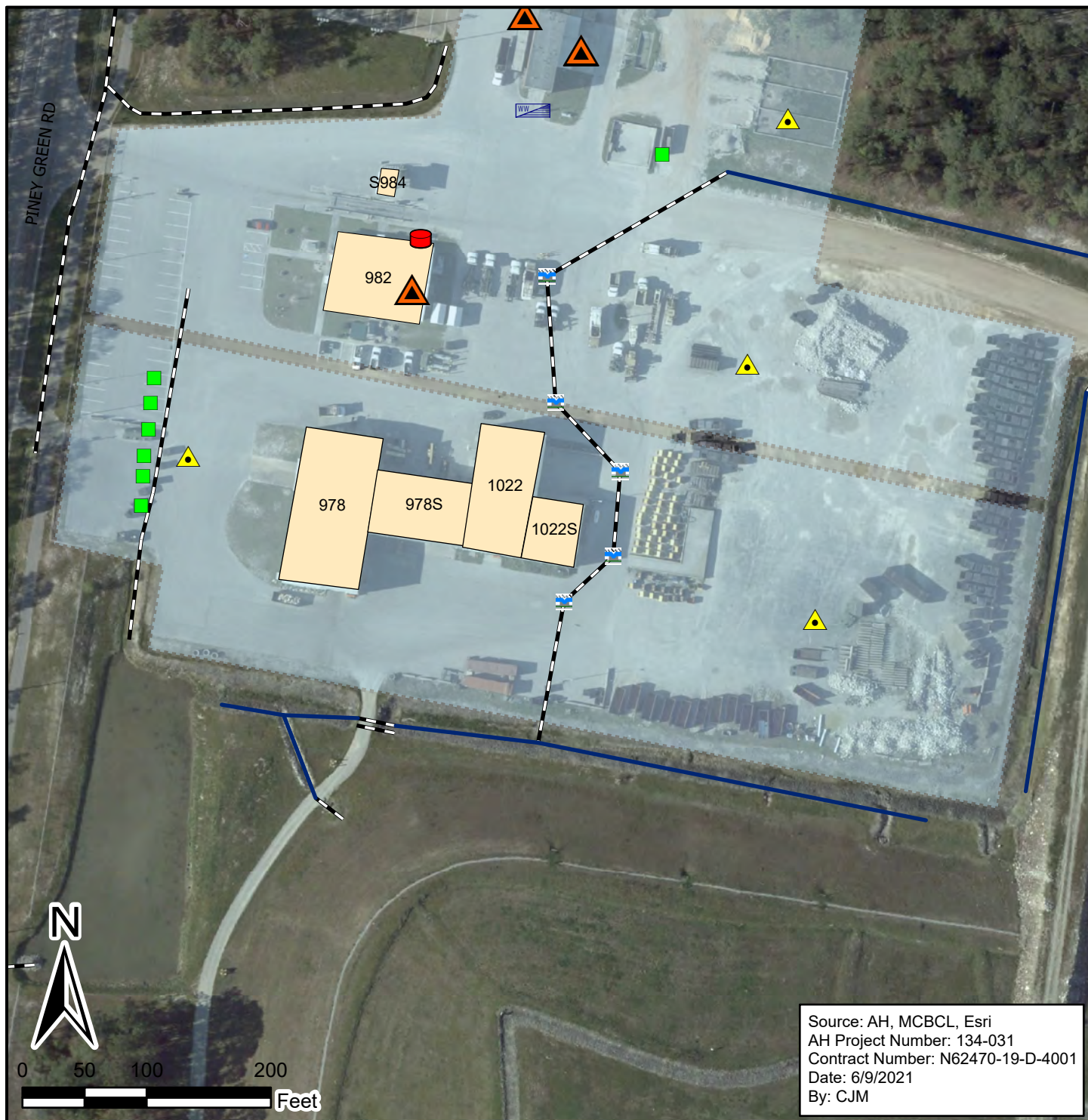


SWPPP Site Maps - Bldg. 977

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 74



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

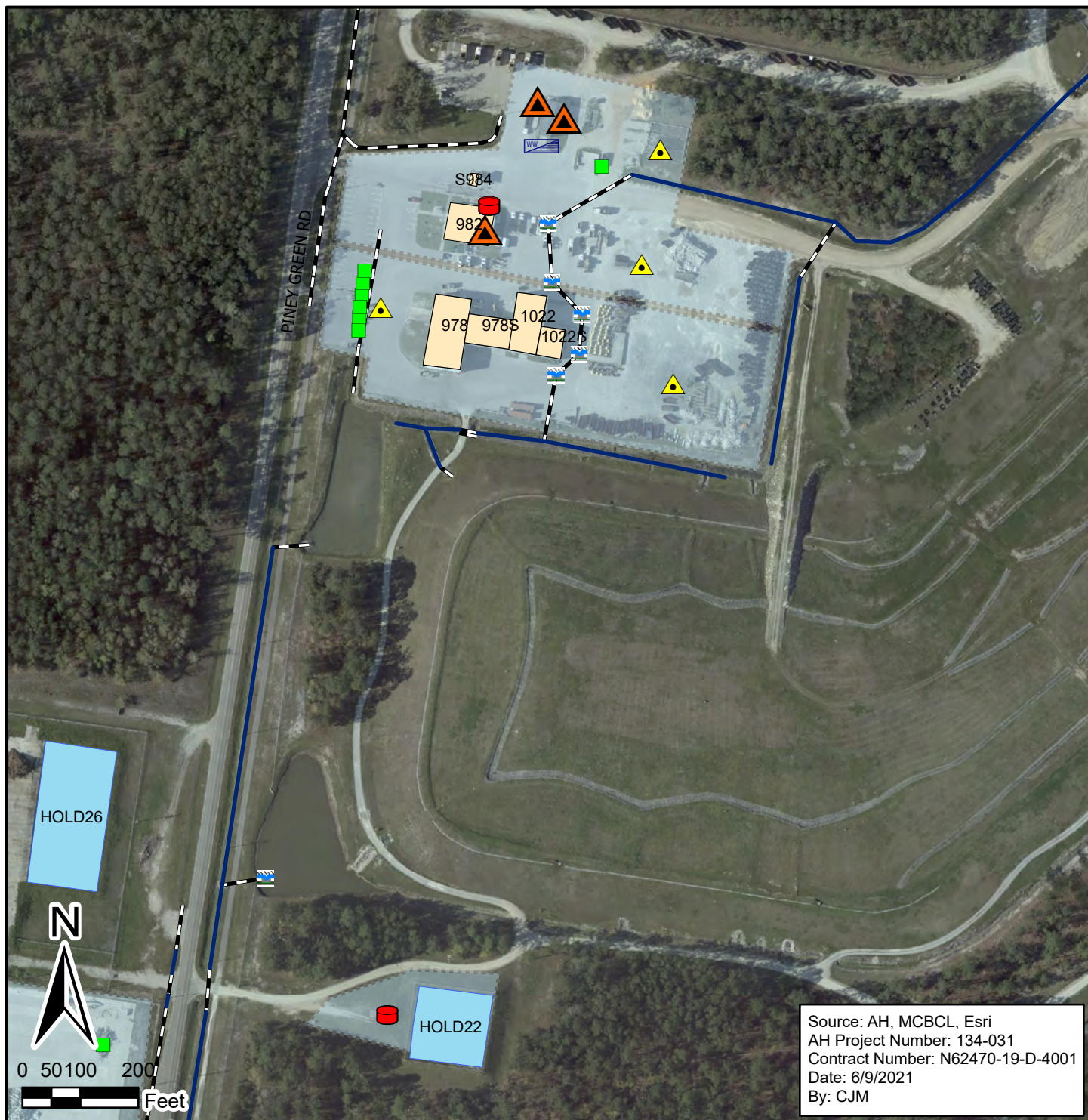


SWPPP Site Maps - Bldg. 978

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 75



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. 982

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 76

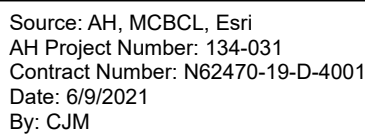


Figure
J - 77



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

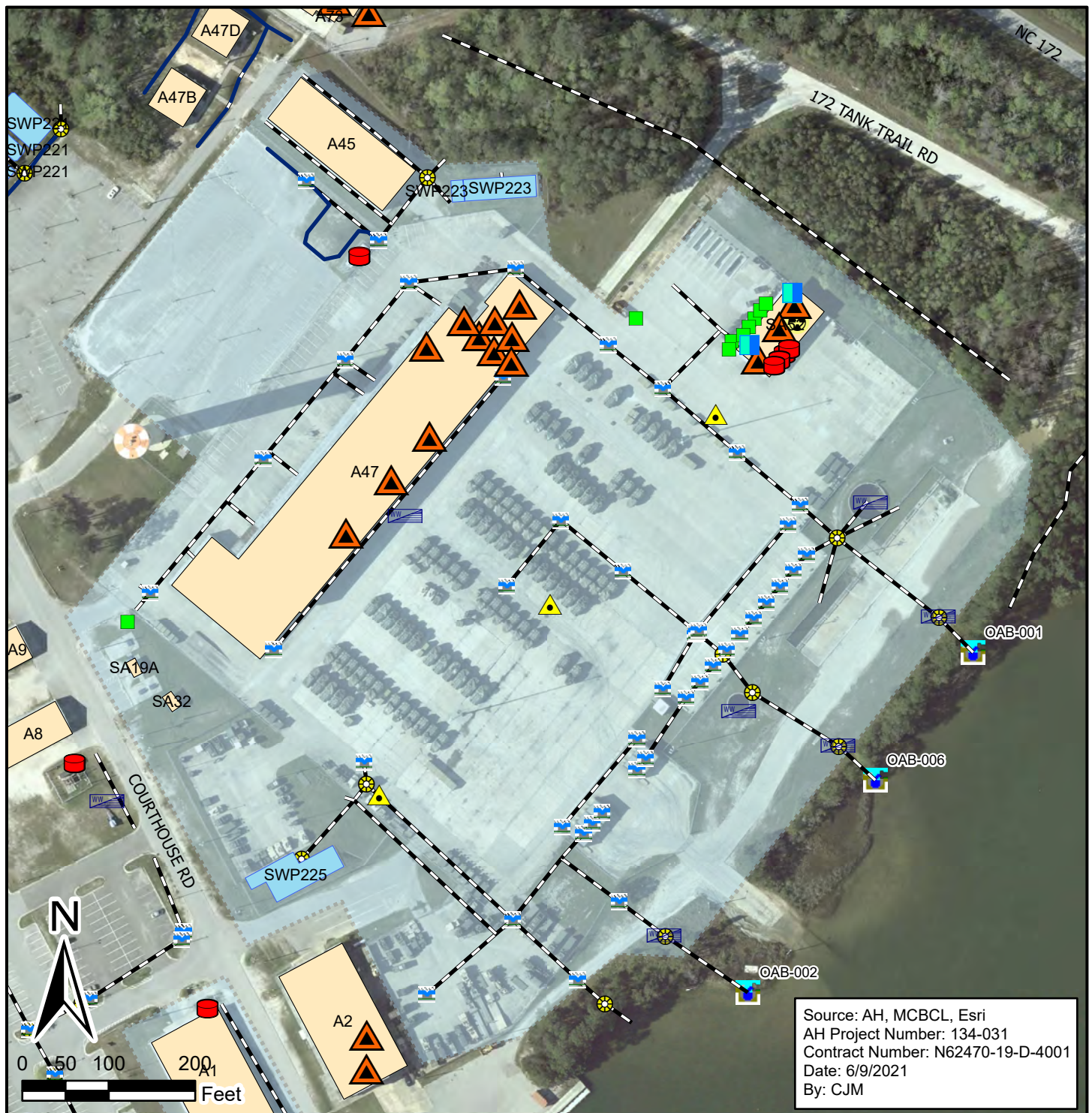


SWPPP Site Maps - Bldg. A1

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 78



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

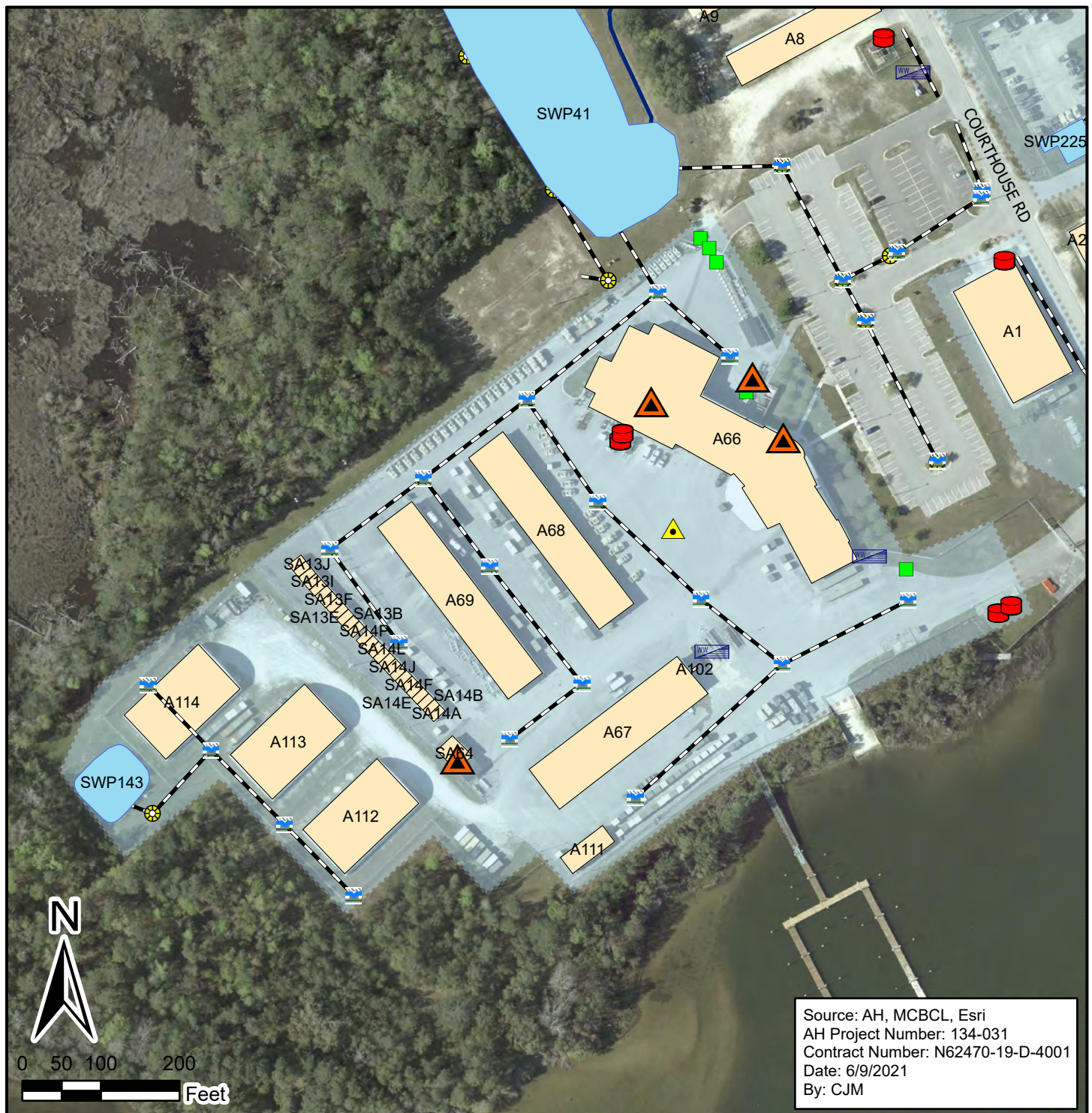


SWPPP Site Maps - Bldg. A47

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 79



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

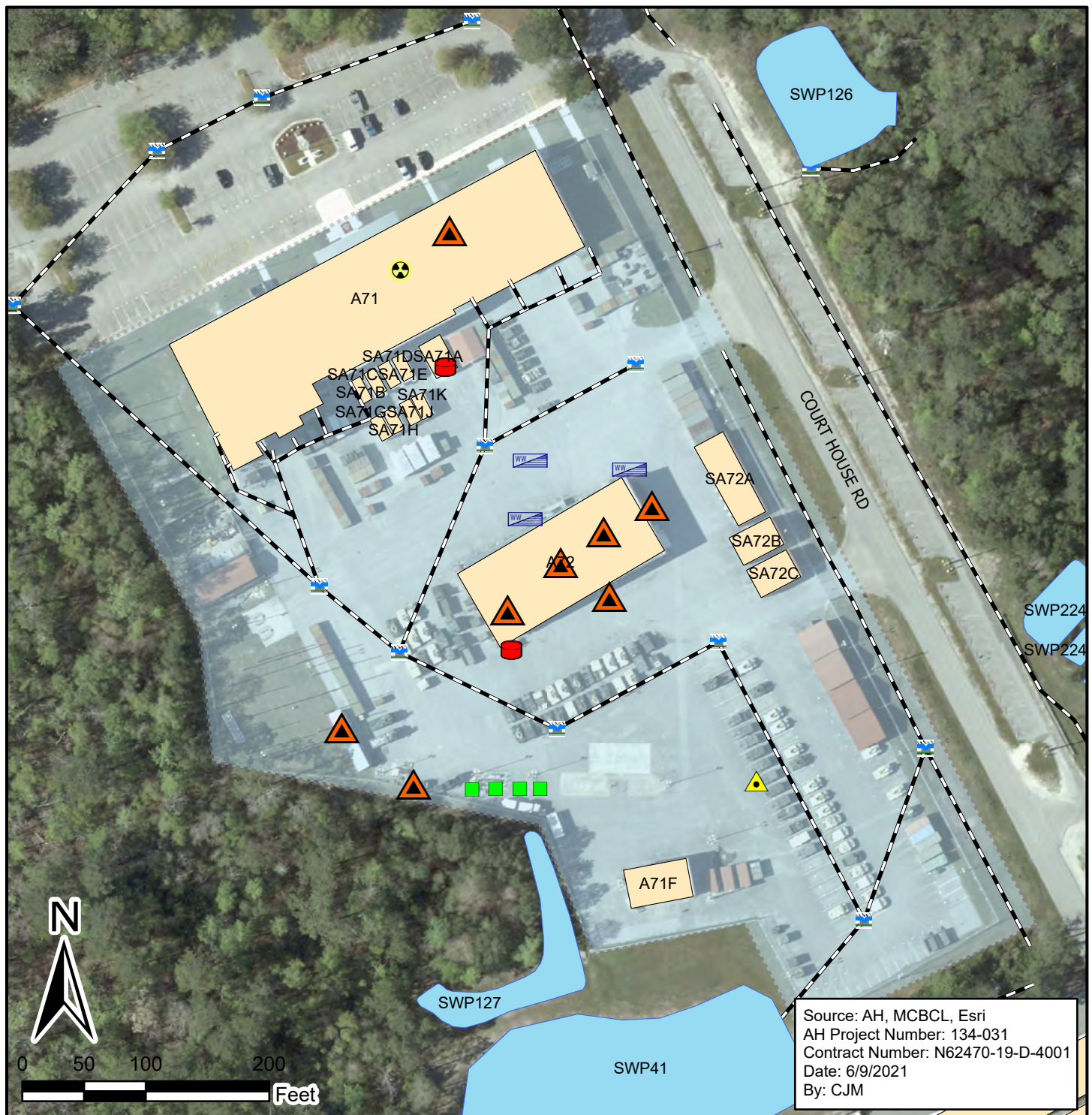


SWPPP Site Maps - Bldg. A66

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 80



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

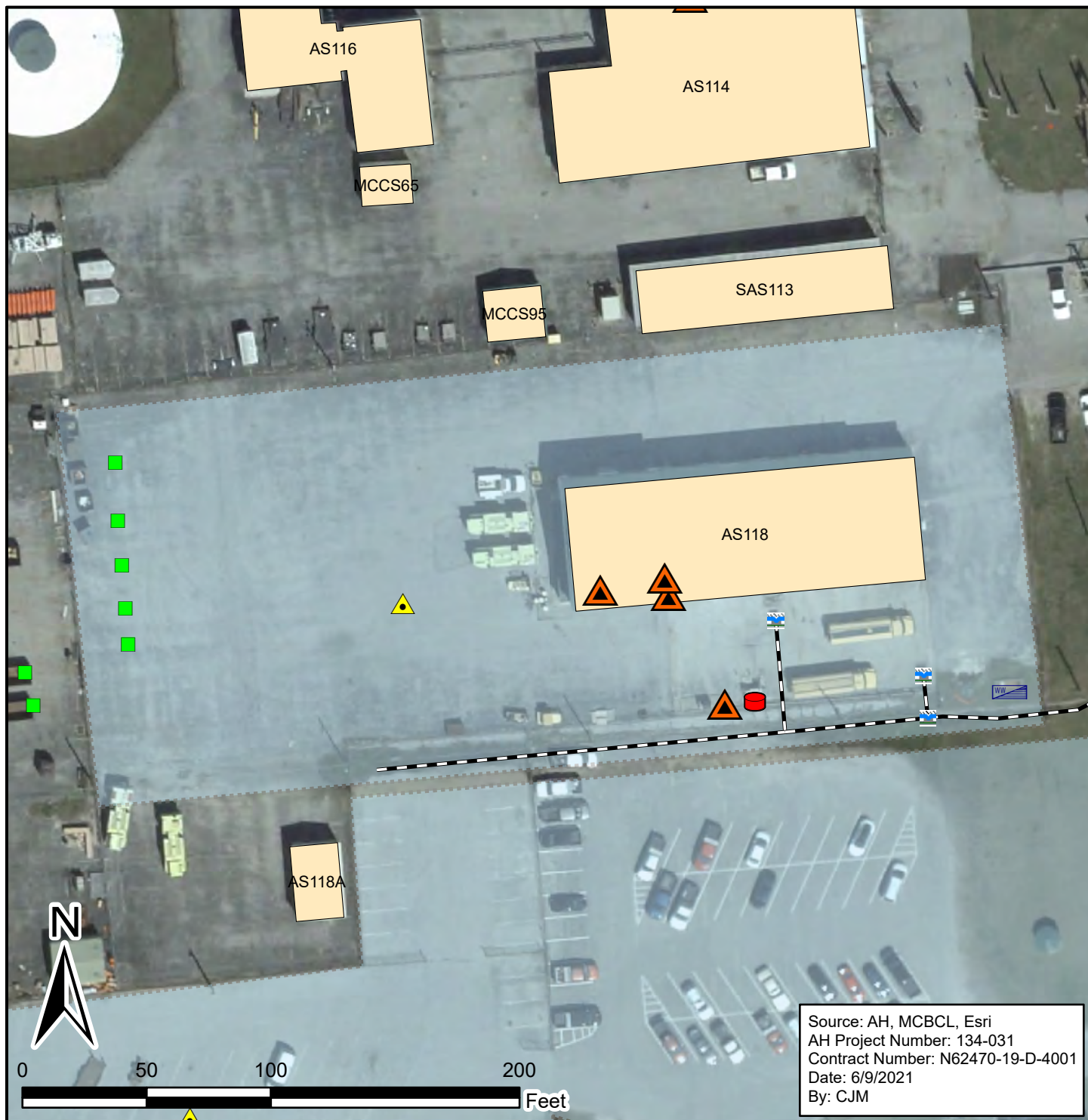


SWPPP Site Maps - Bldg. A71

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 81



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS118
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 82



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

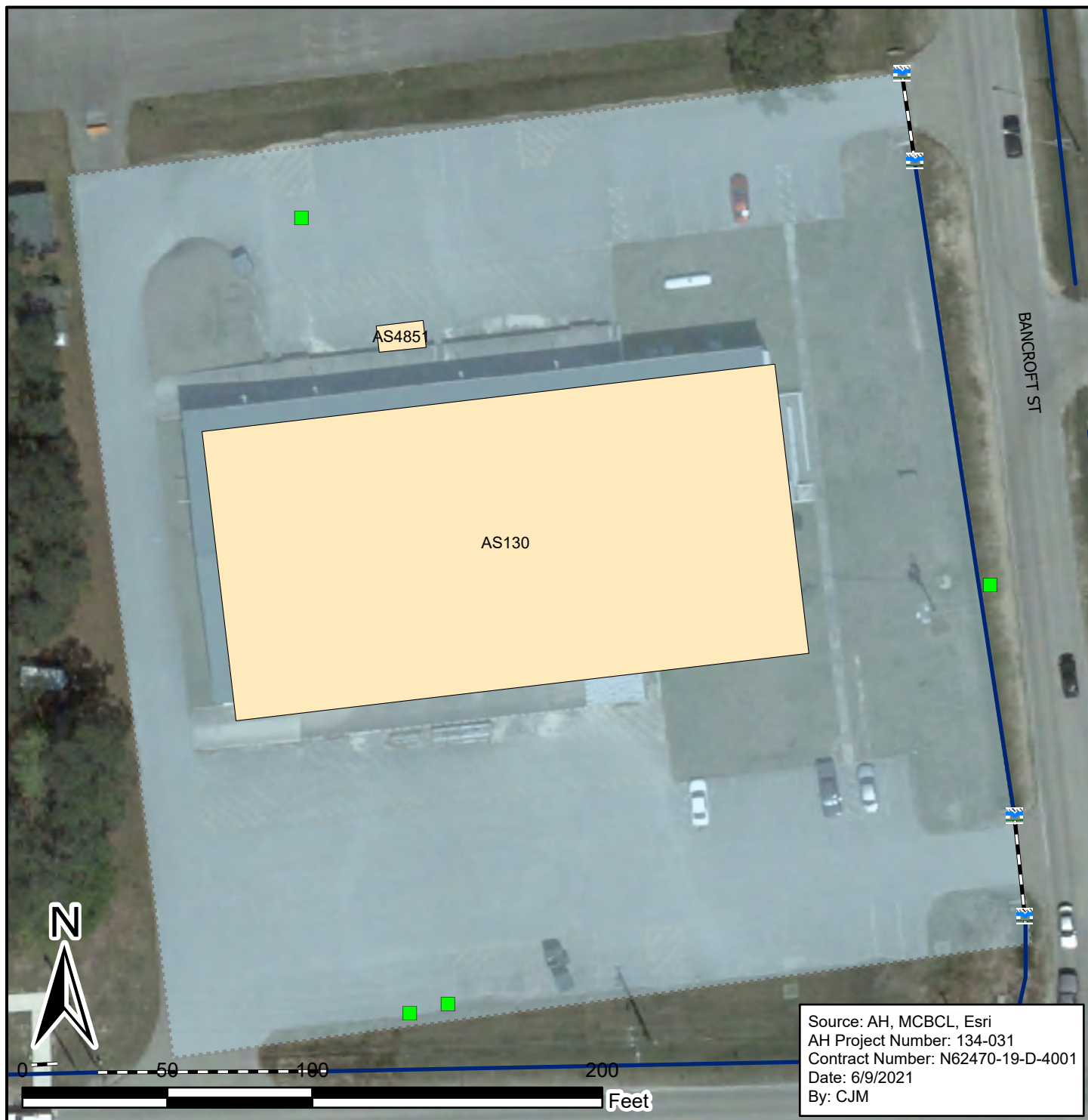


SWPPP Site Maps - Bldg. AS122

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 83



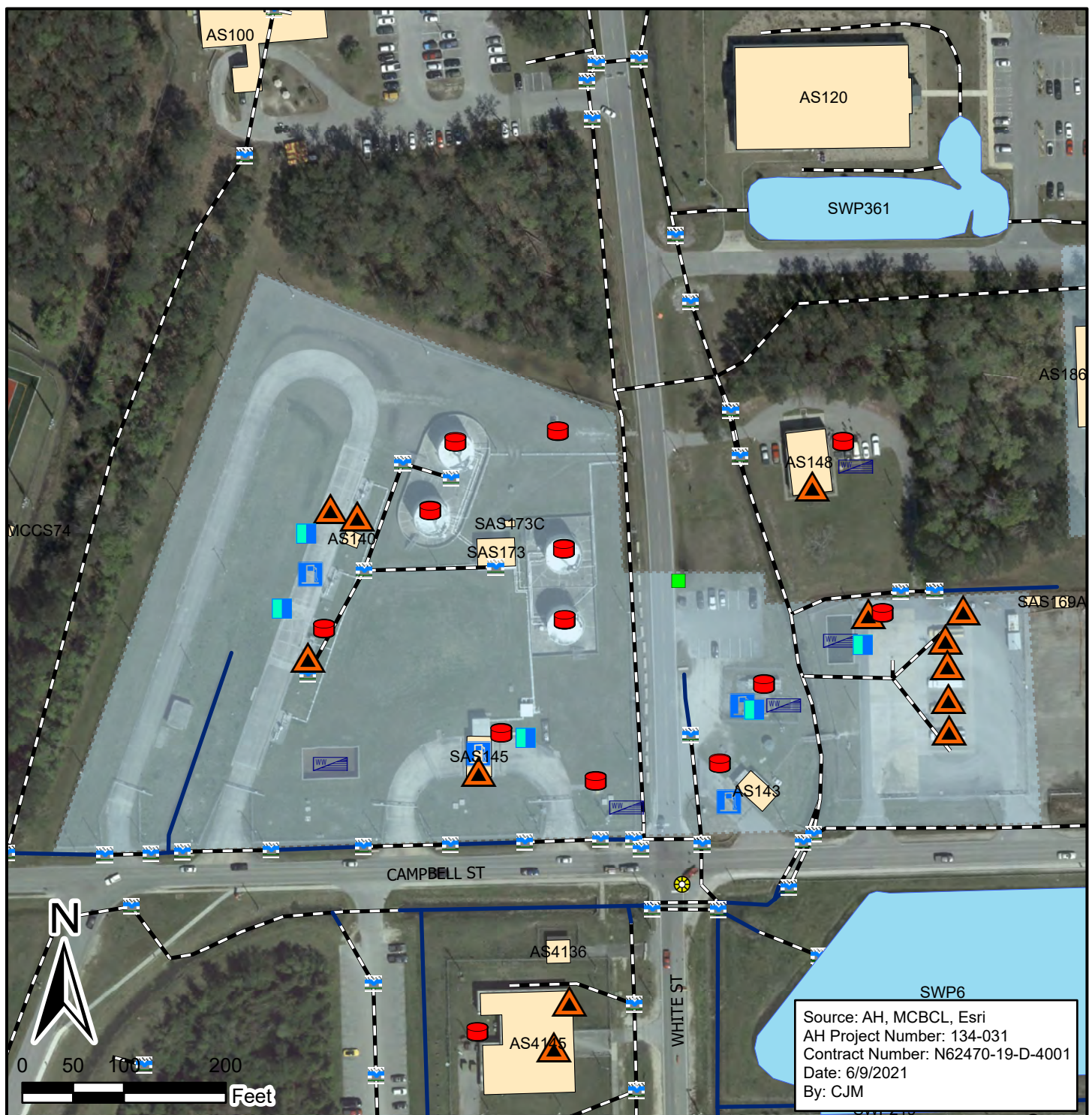
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS130
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 84



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

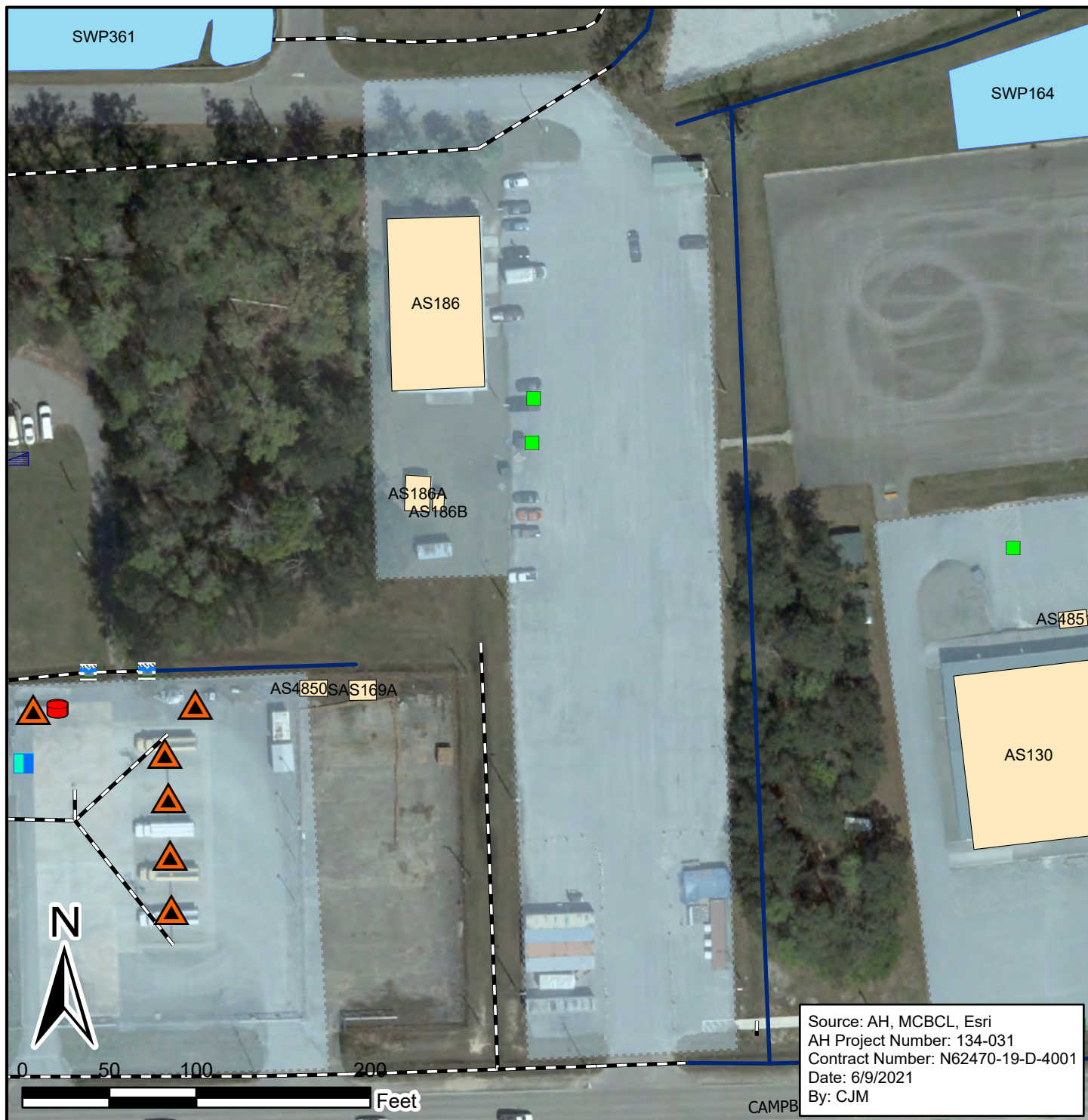


SWPPP Site Maps - Bldg. AS143

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 85



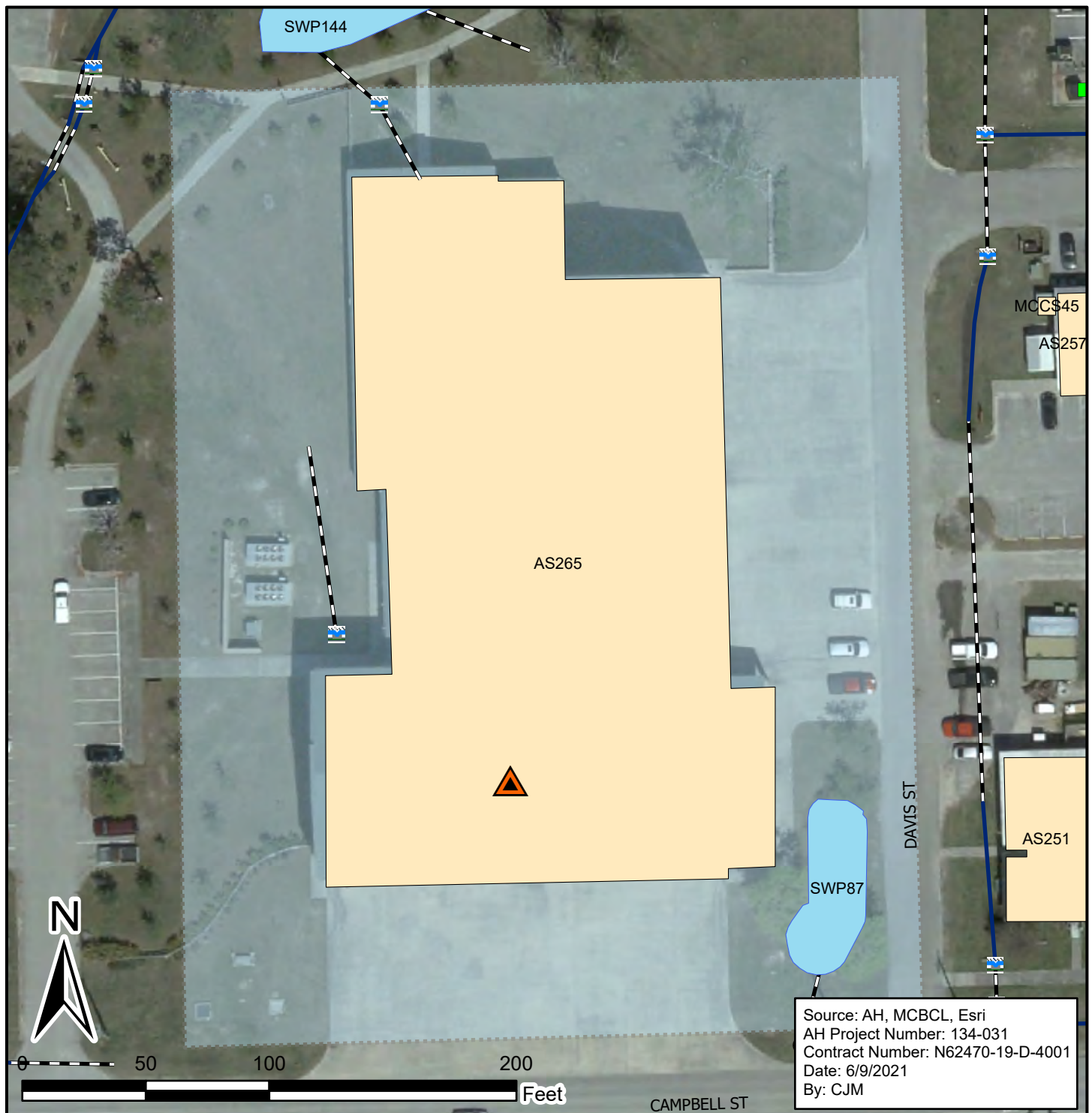
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS186
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 86



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS265
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 87



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS2800
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 88



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



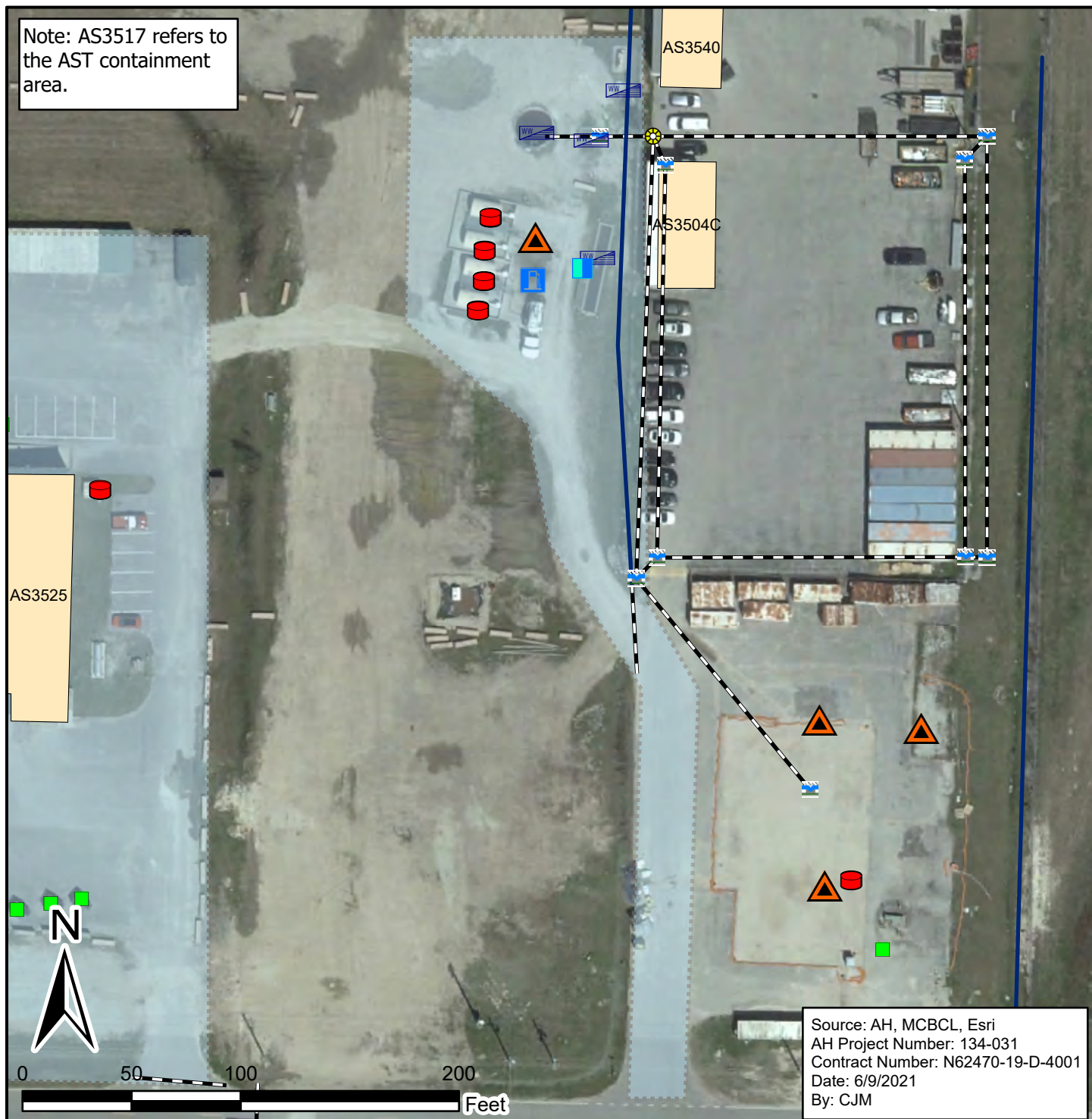
SWPPP Site Maps - Bldg. AS2820

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 89

Note: AS3517 refers to the AST containment area.



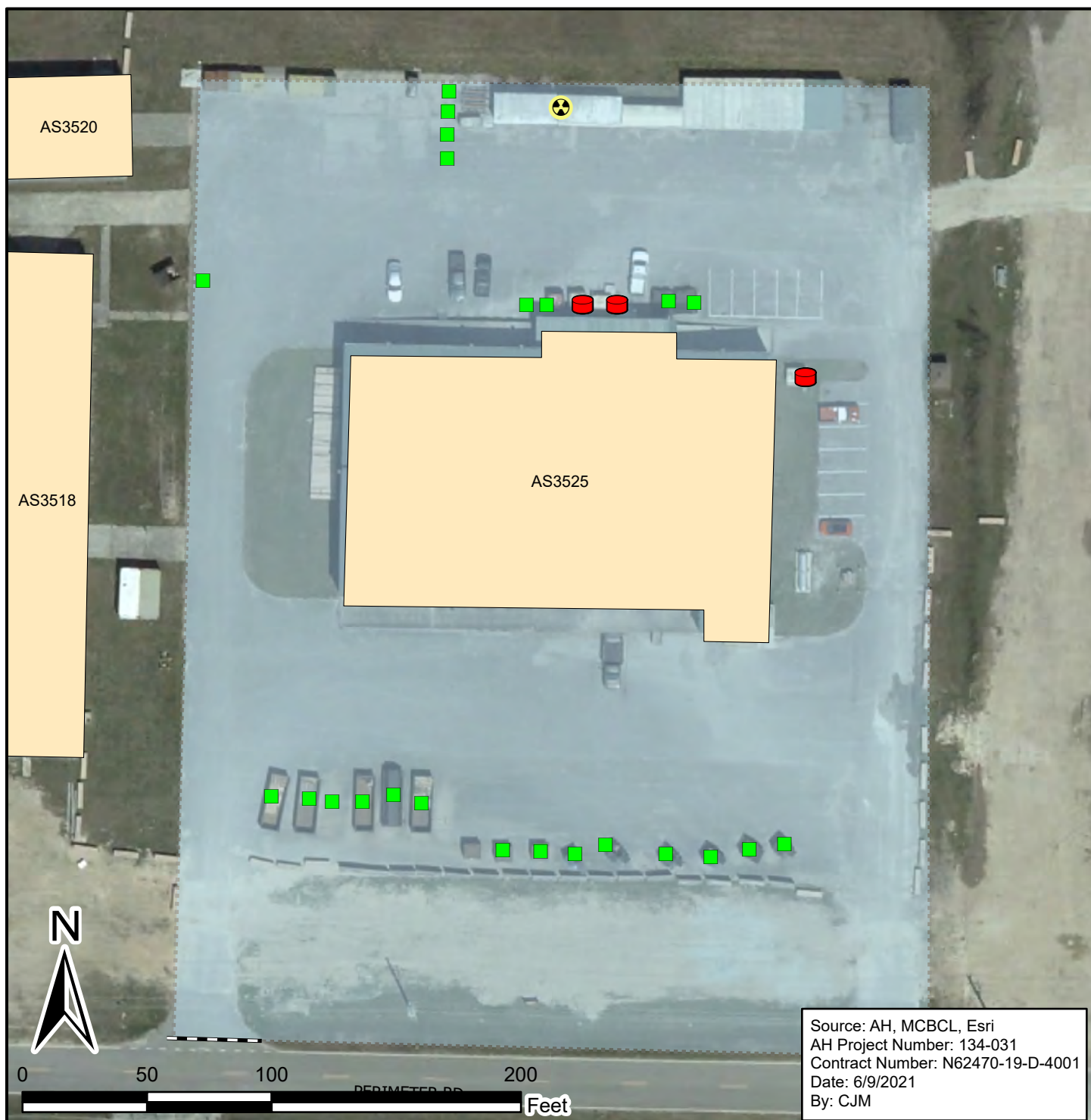
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS3517
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 90



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

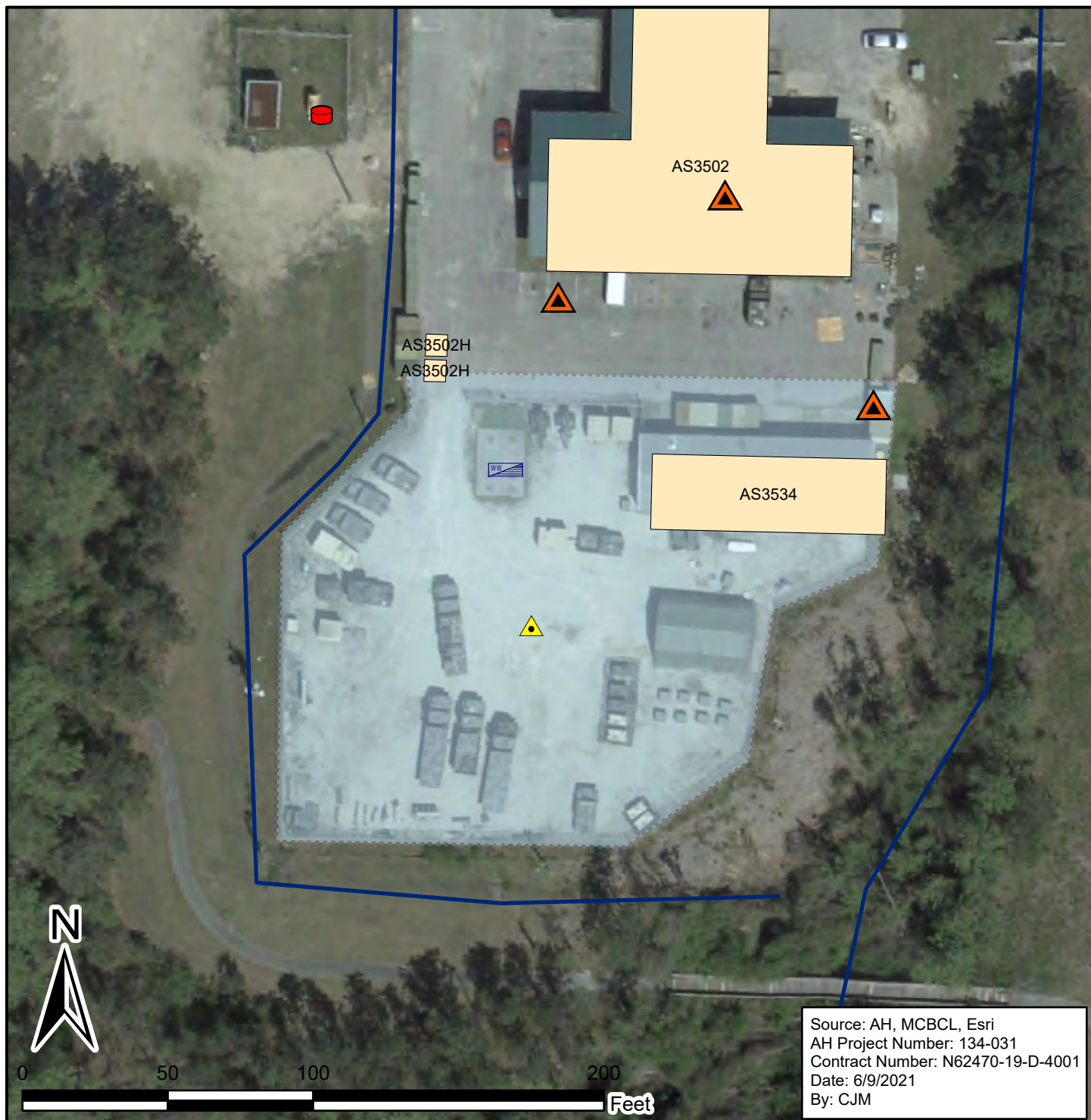


SWPPP Site Maps - Bldg. AS3525

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 91



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS3534
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 92

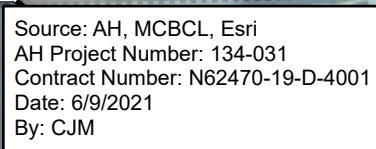
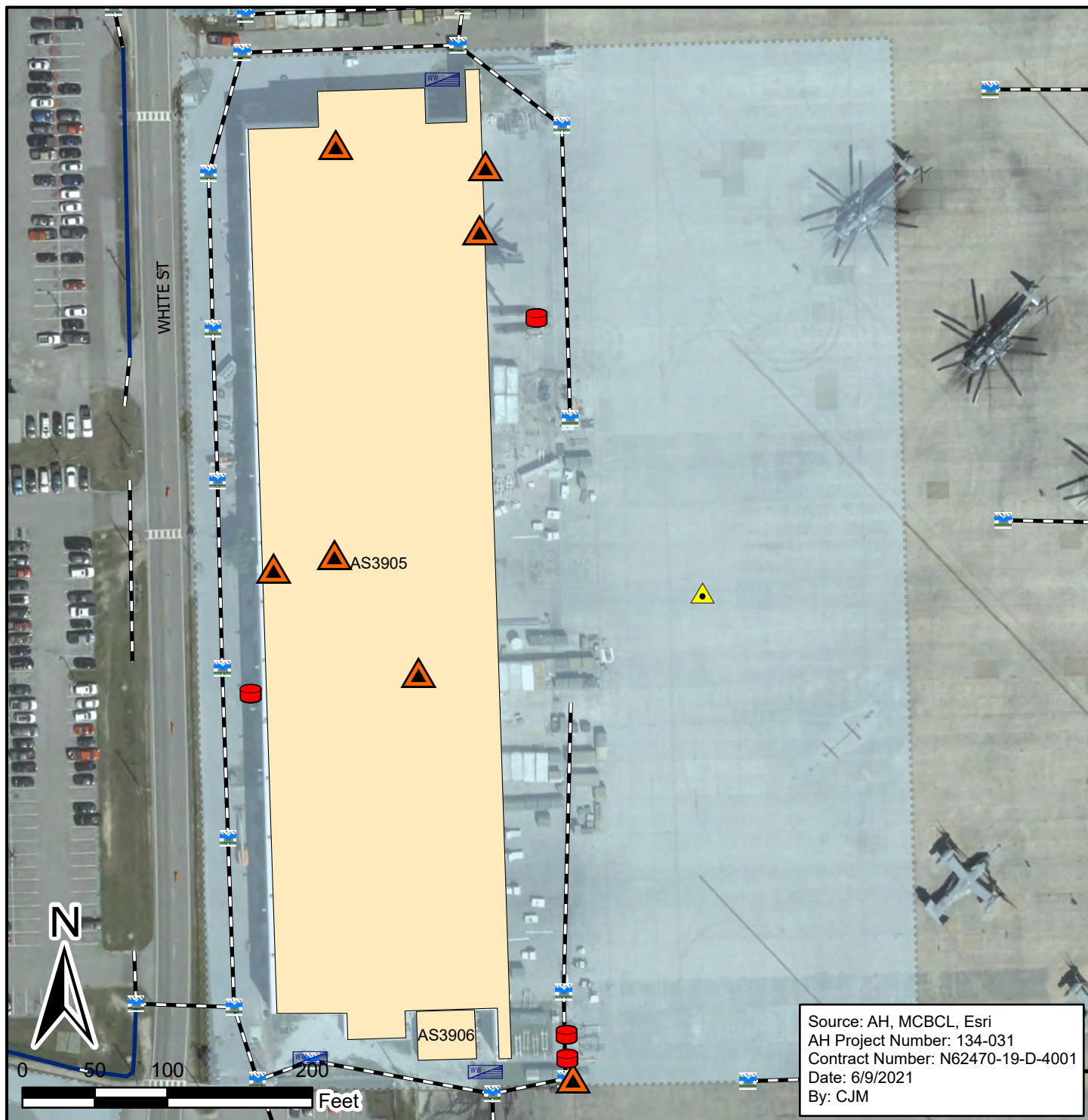


Figure
J - 93



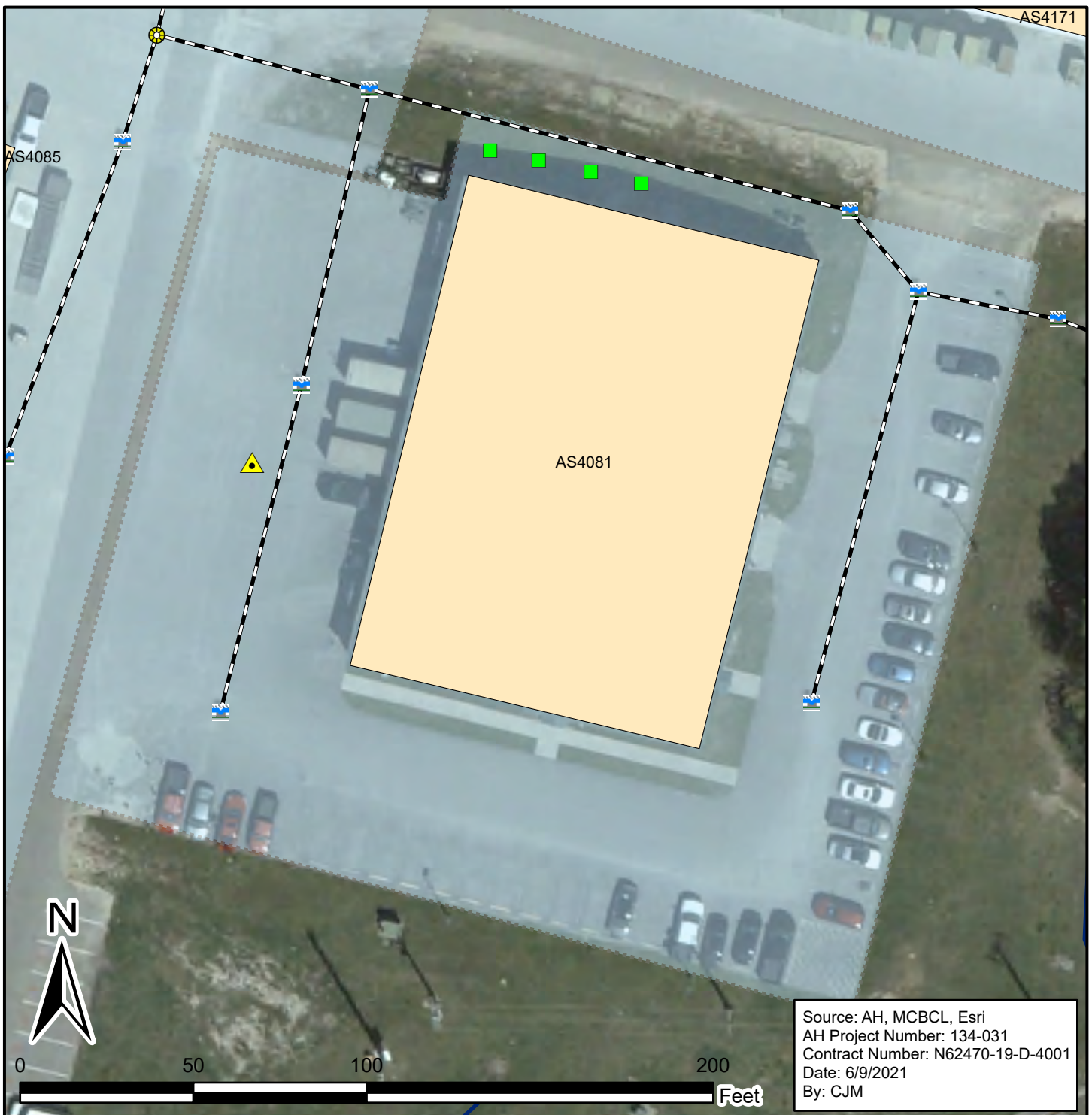
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS3905
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 94



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS4081
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 95



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

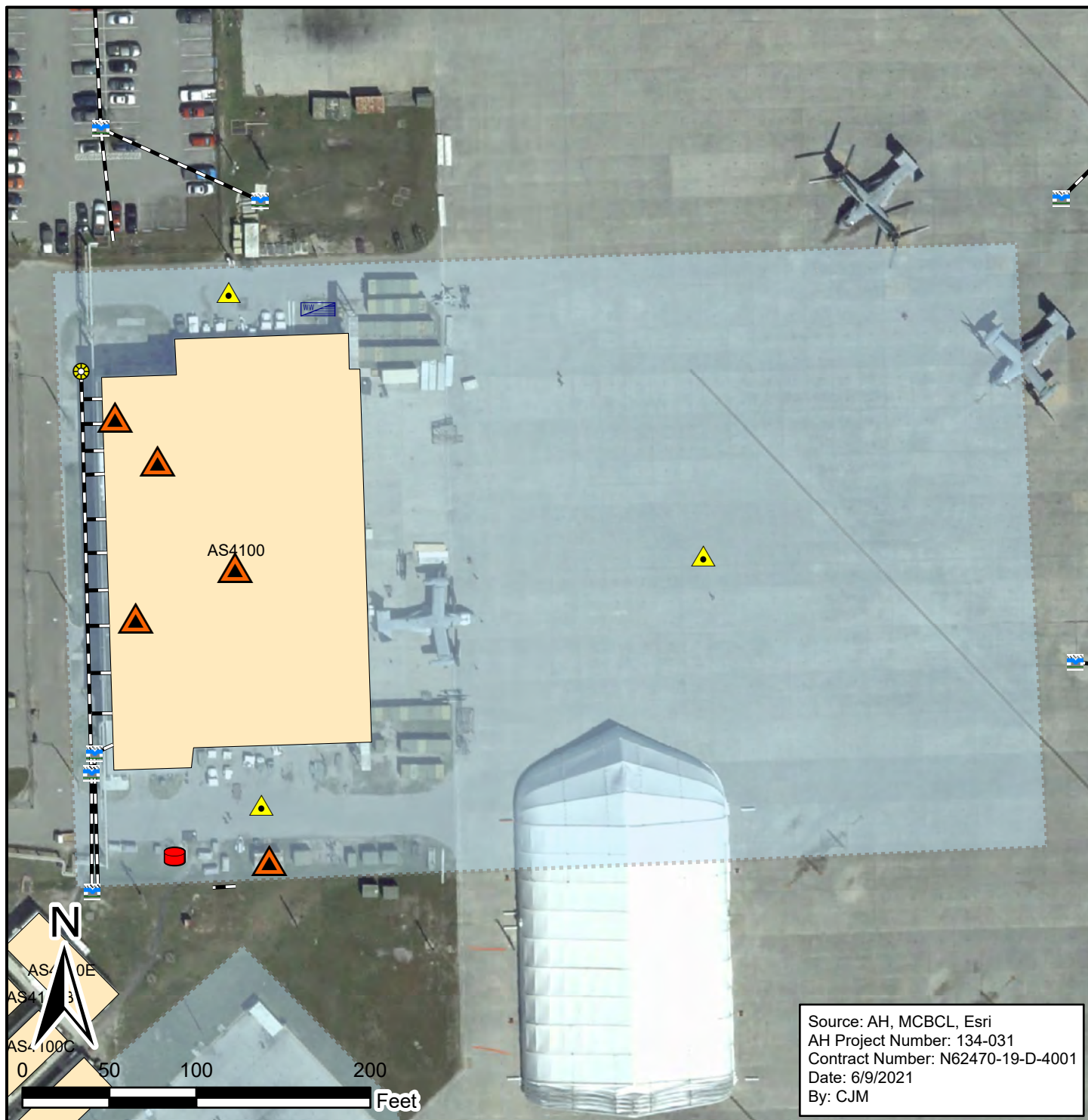


SWPPP Site Maps - Bldg. AS4085

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 96



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

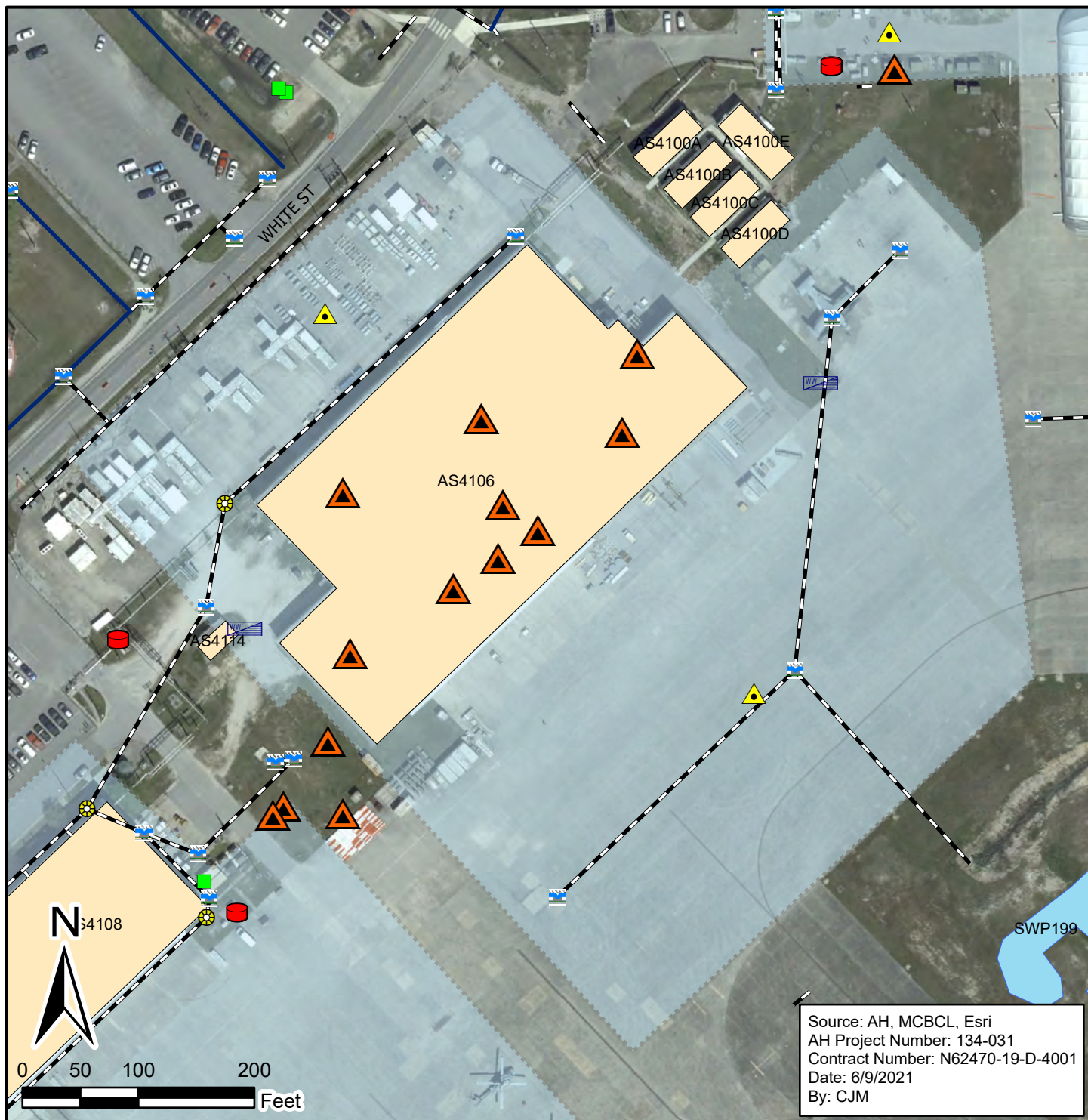


SWPPP Site Maps - Bldg. AS4100

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 97



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

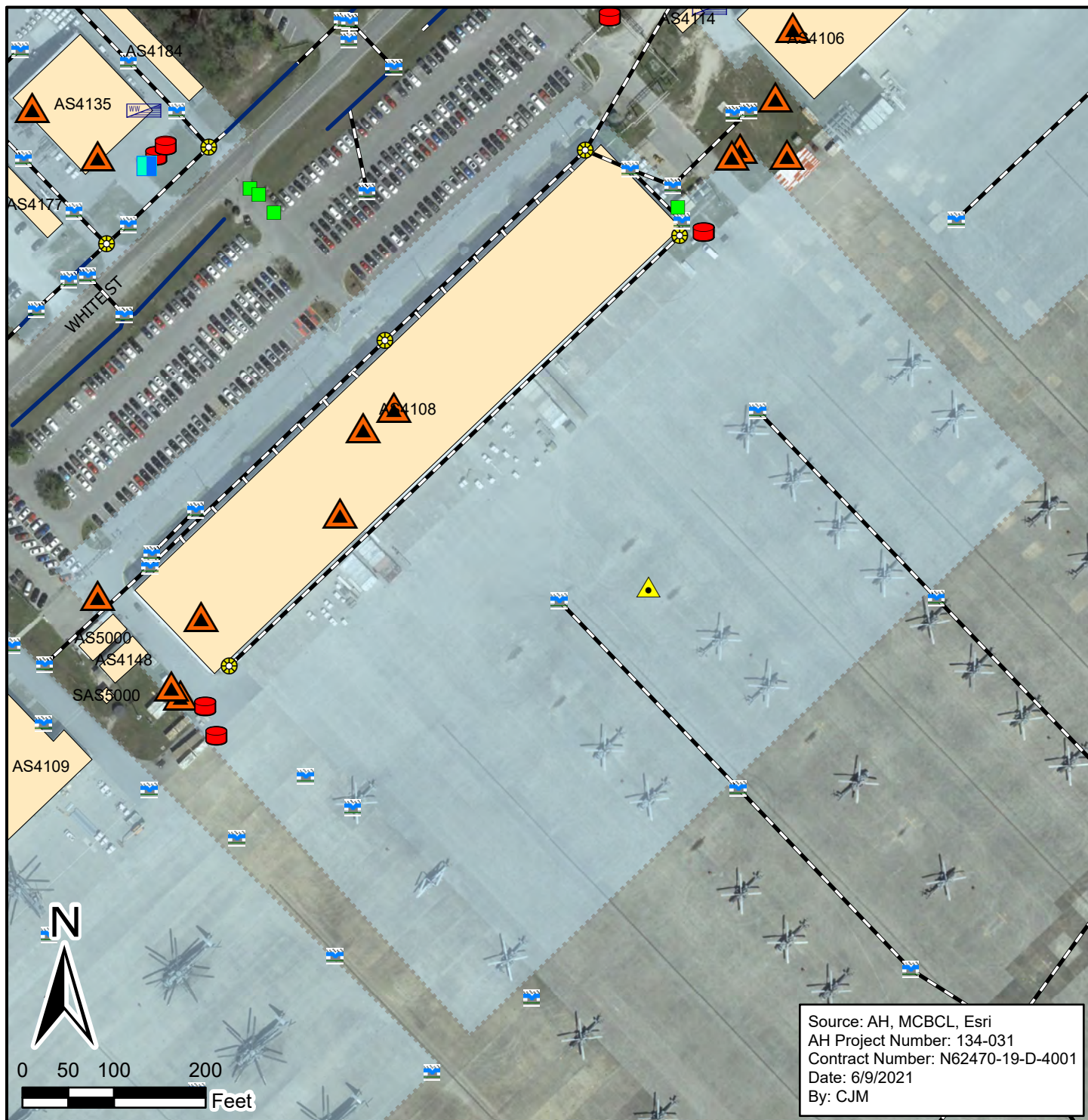


SWPPP Site Maps - Bldg. AS4106

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 98



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

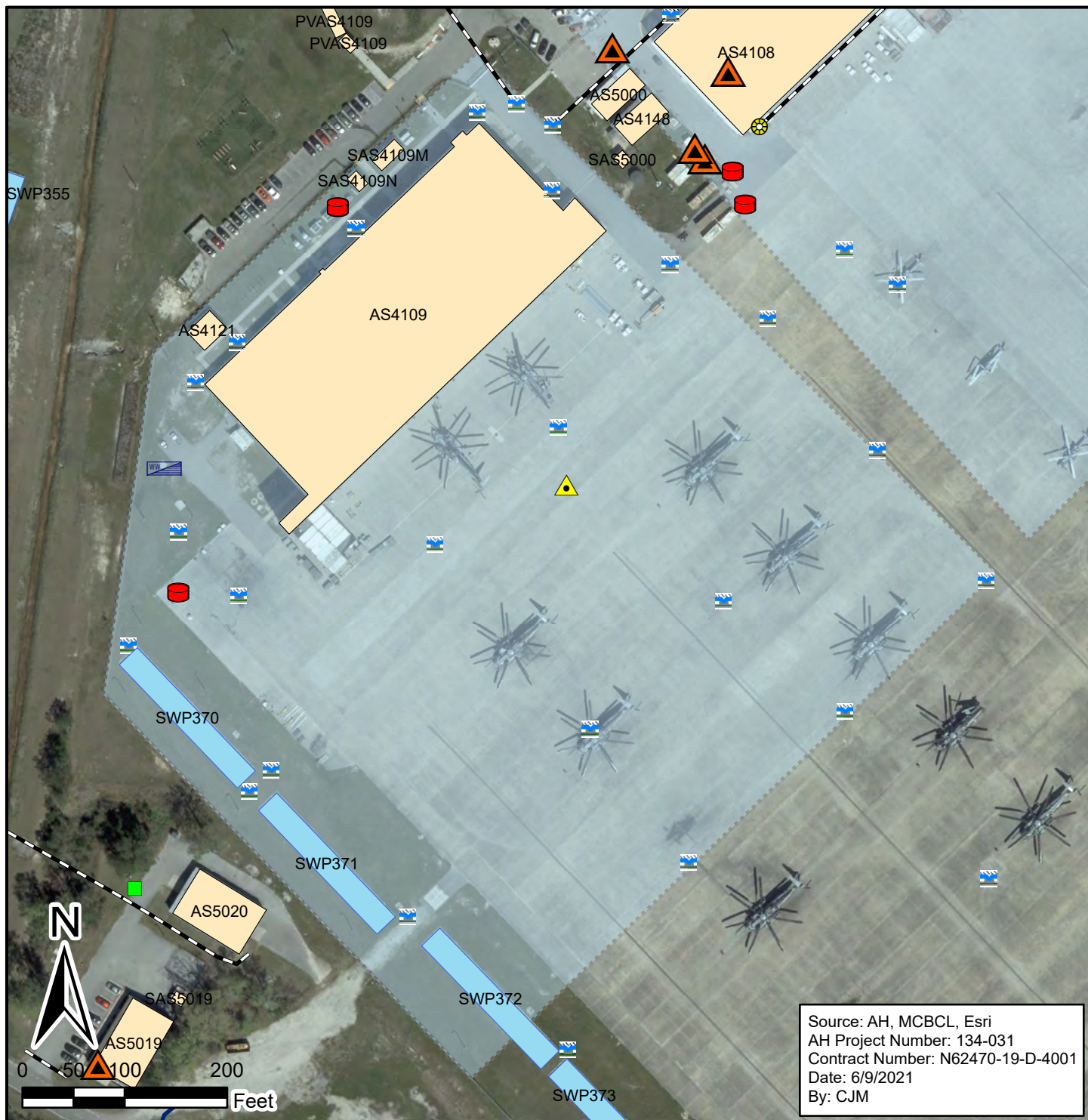


SWPPP Site Maps - Bldg. AS4108

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 99



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

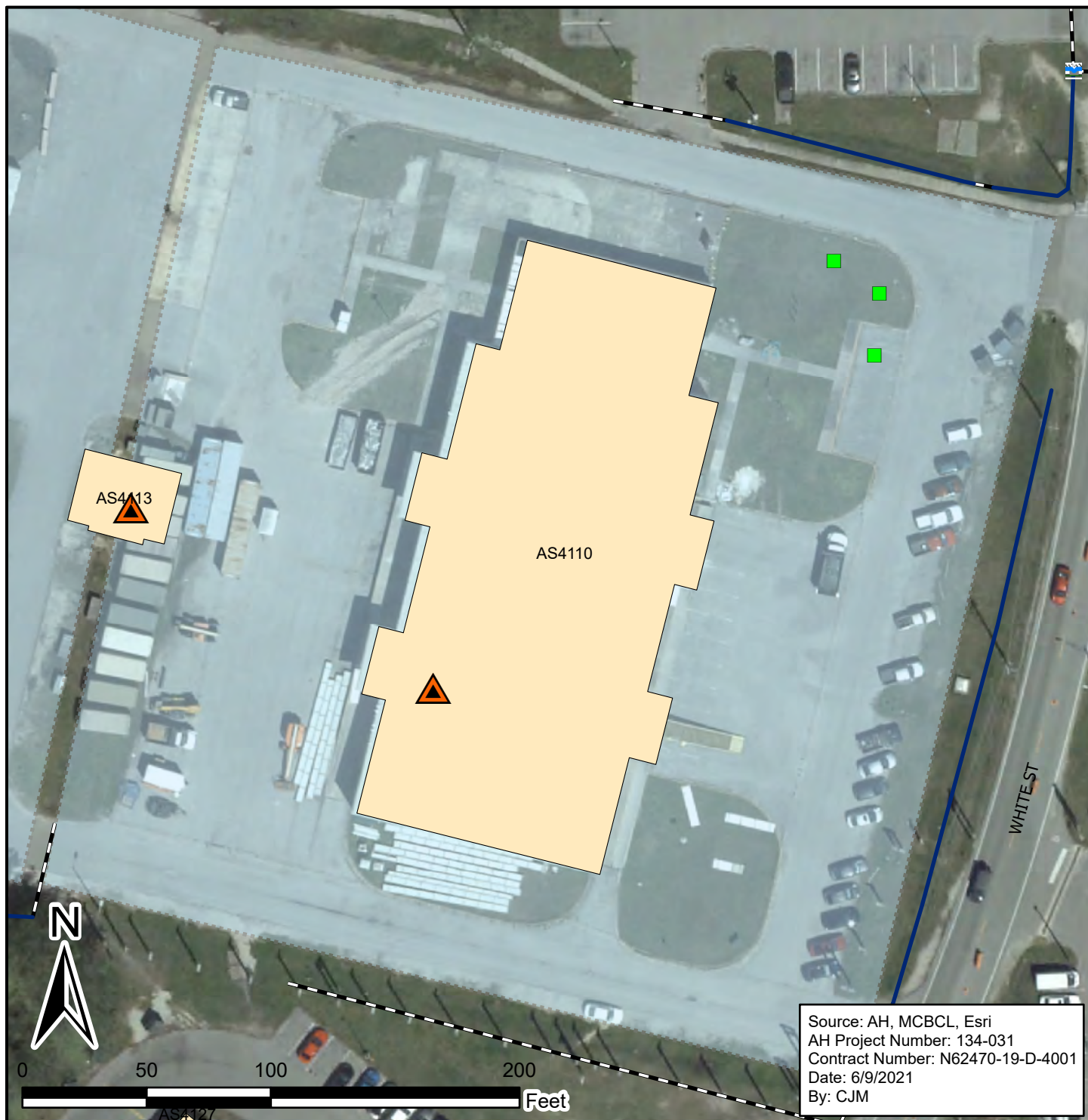


SWPPP Site Maps - Bldg. AS4109

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 100



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

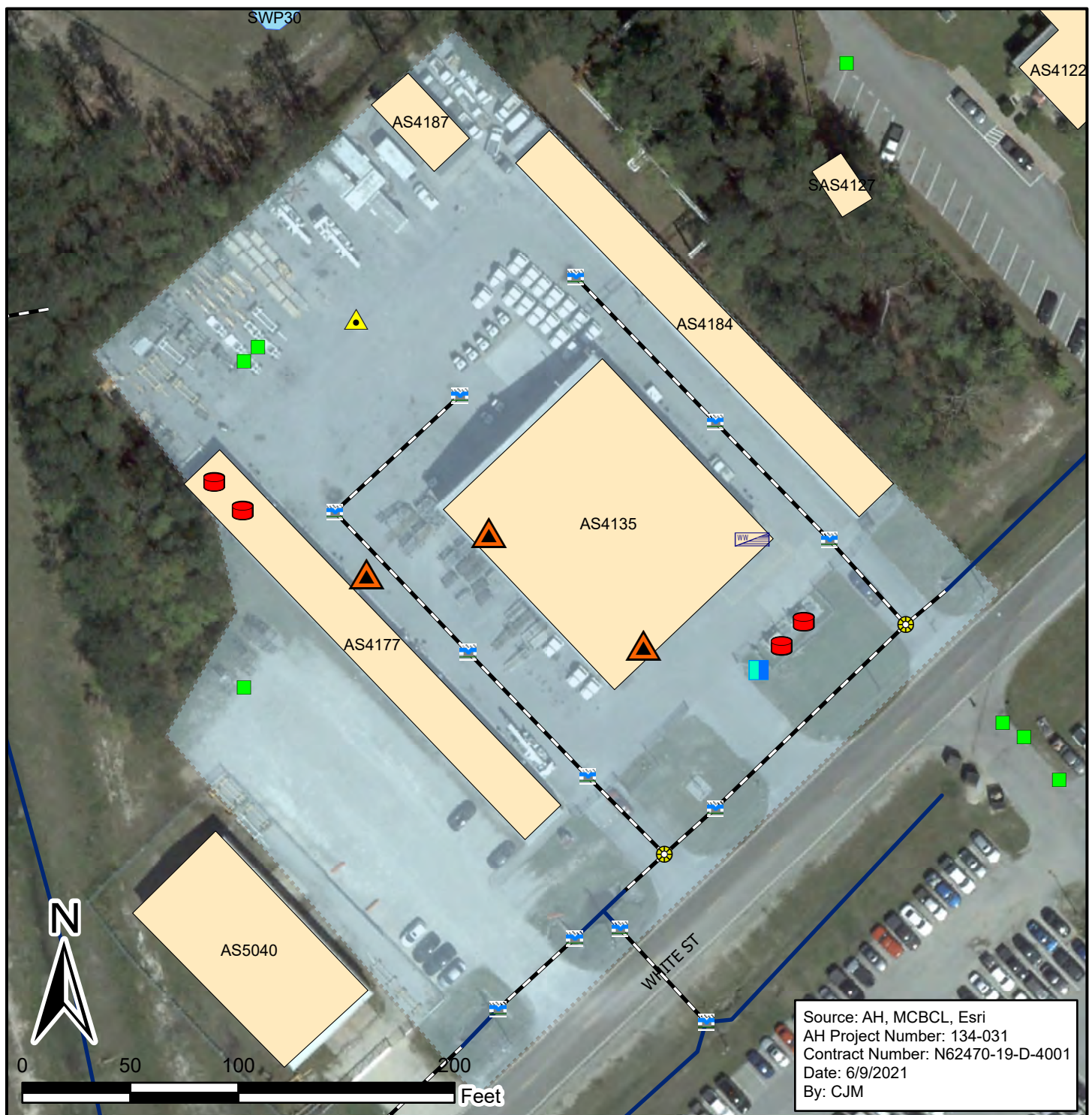


SWPPP Site Maps - Bldg. AS4110

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 101



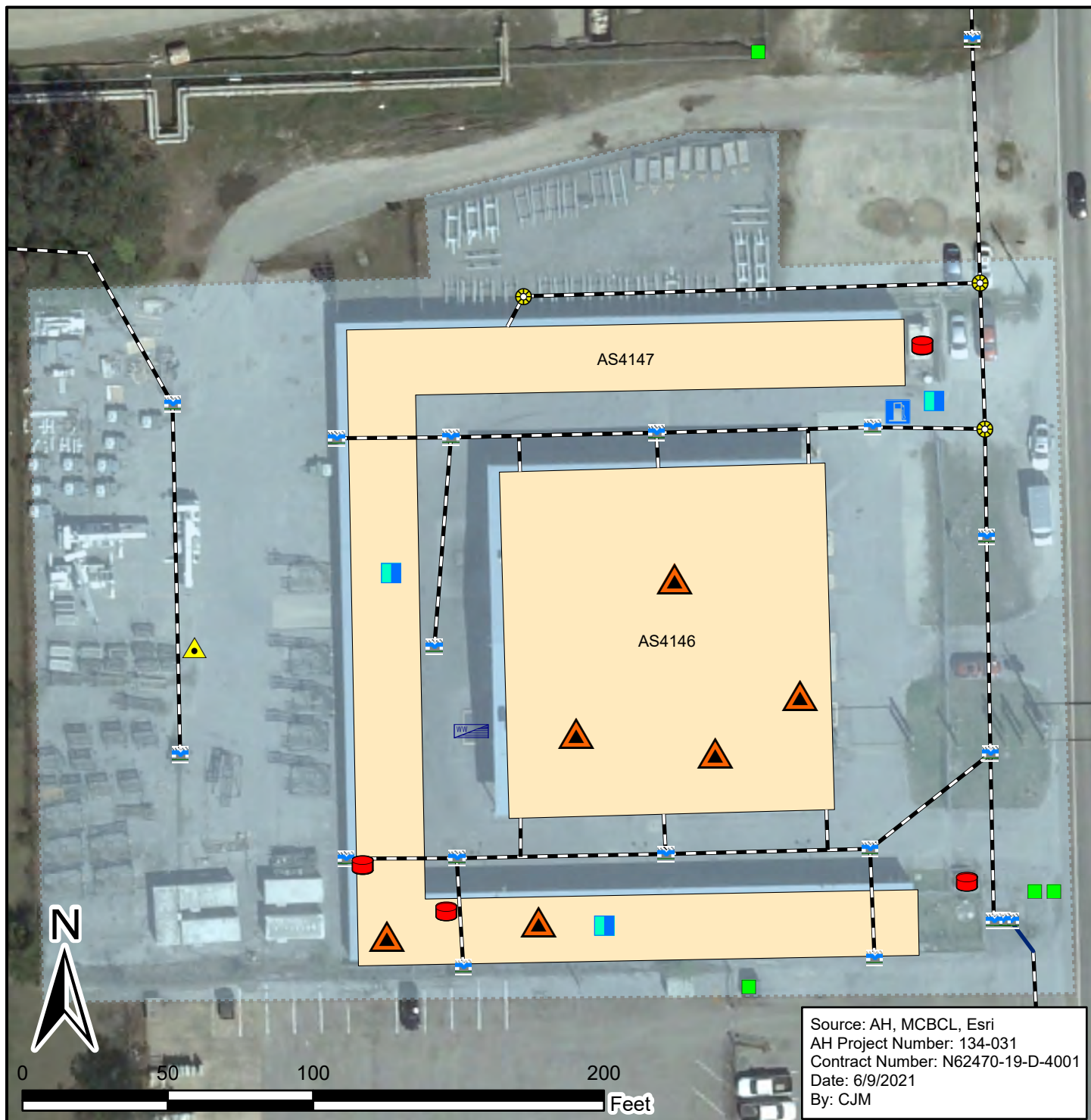
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS4135
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 102



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

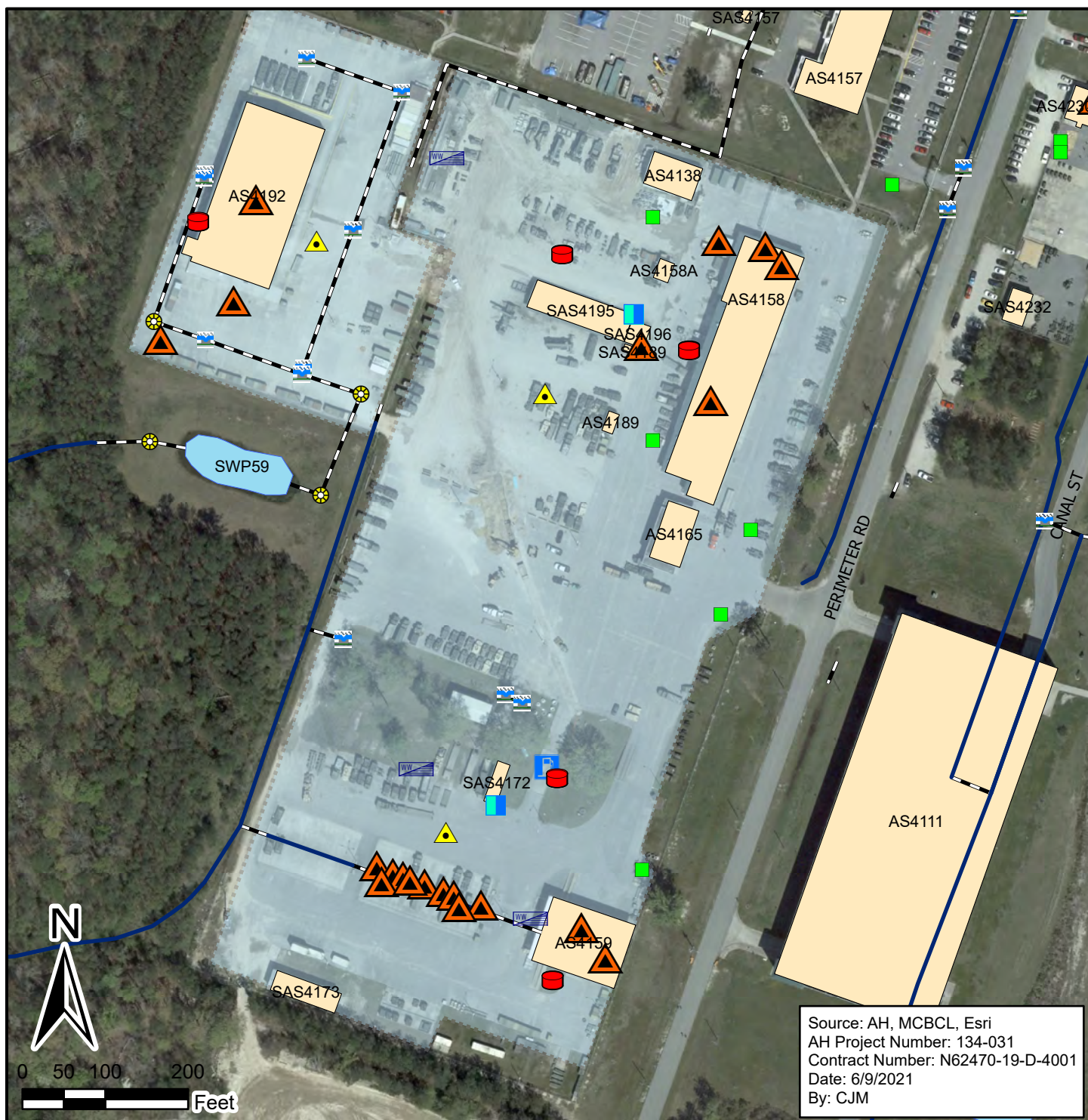


SWPPP Site Maps - Bldg. AS4146

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 103



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

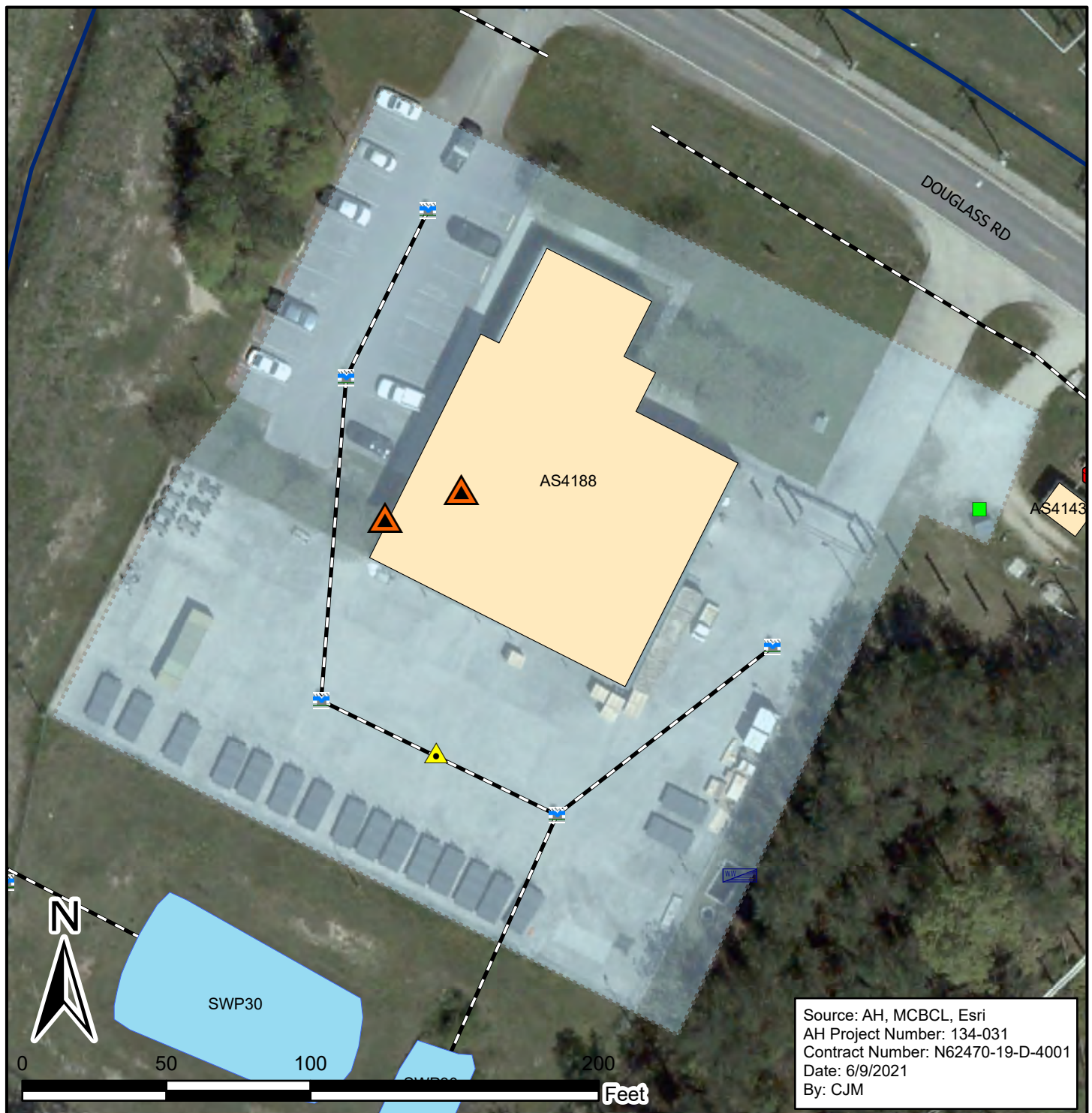


SWPPP Site Maps - Bldg. AS4158

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 104



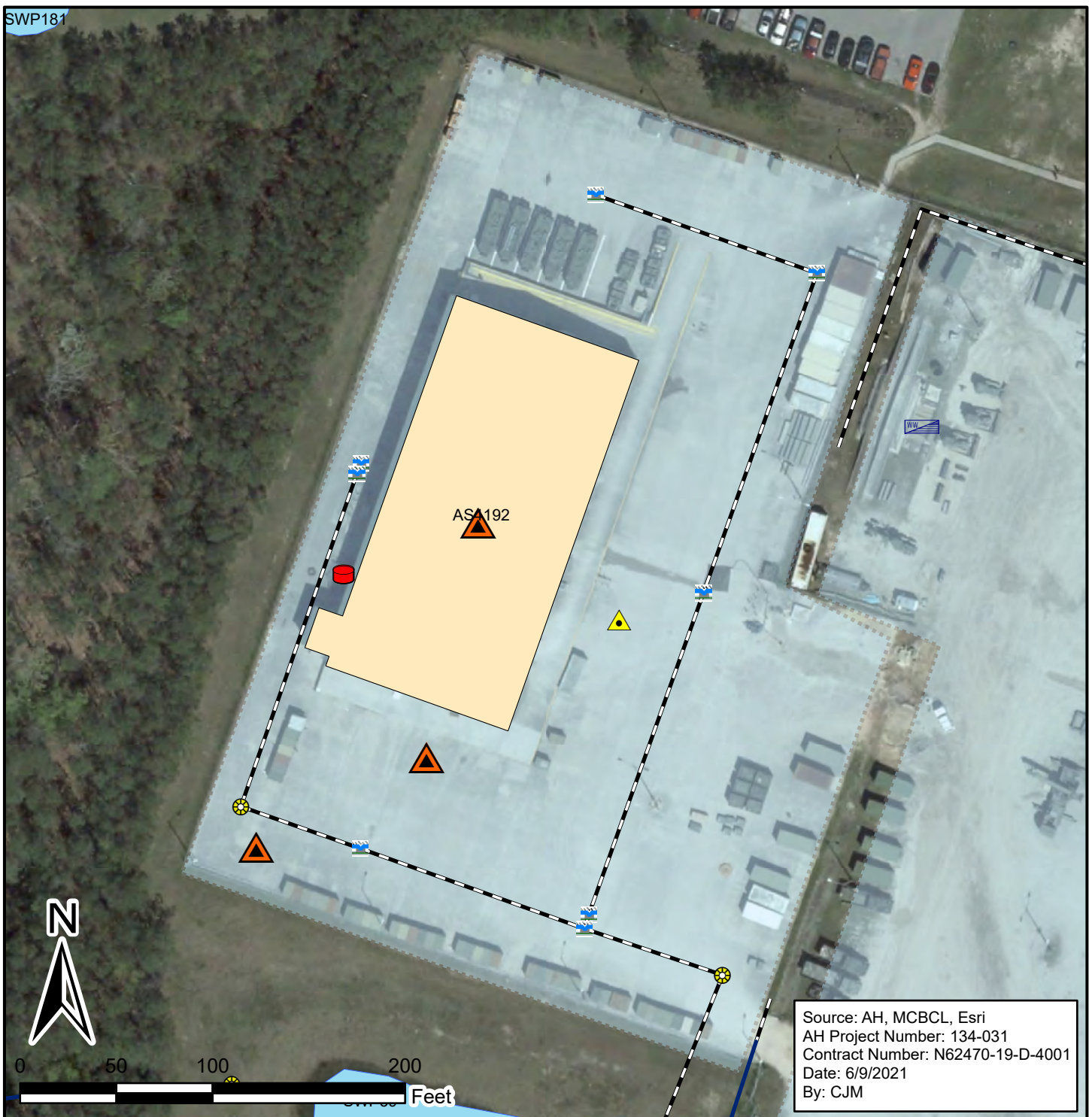
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



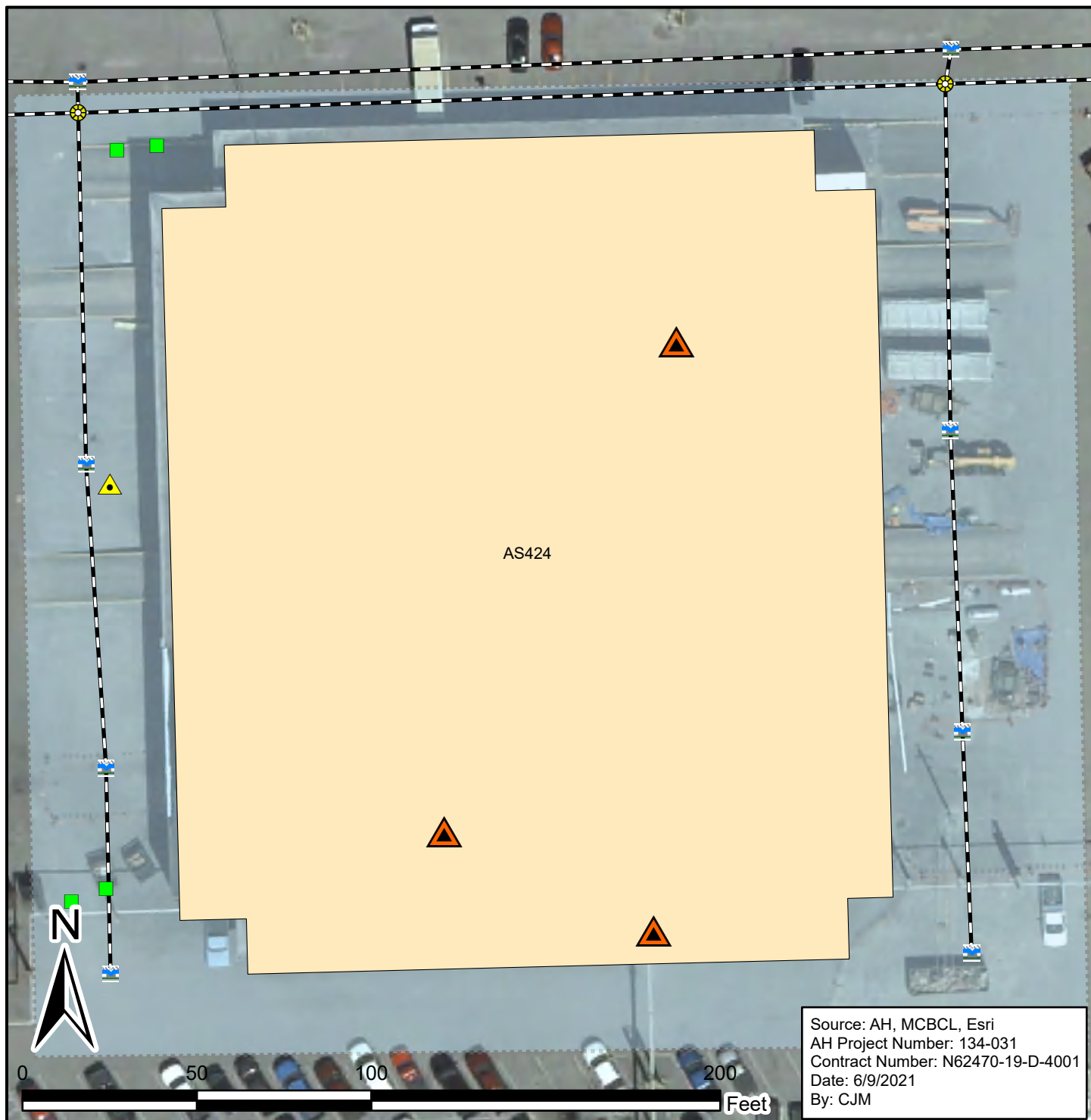
SWPPP Site Maps - Bldg. AS4188
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 106



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS424
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 108



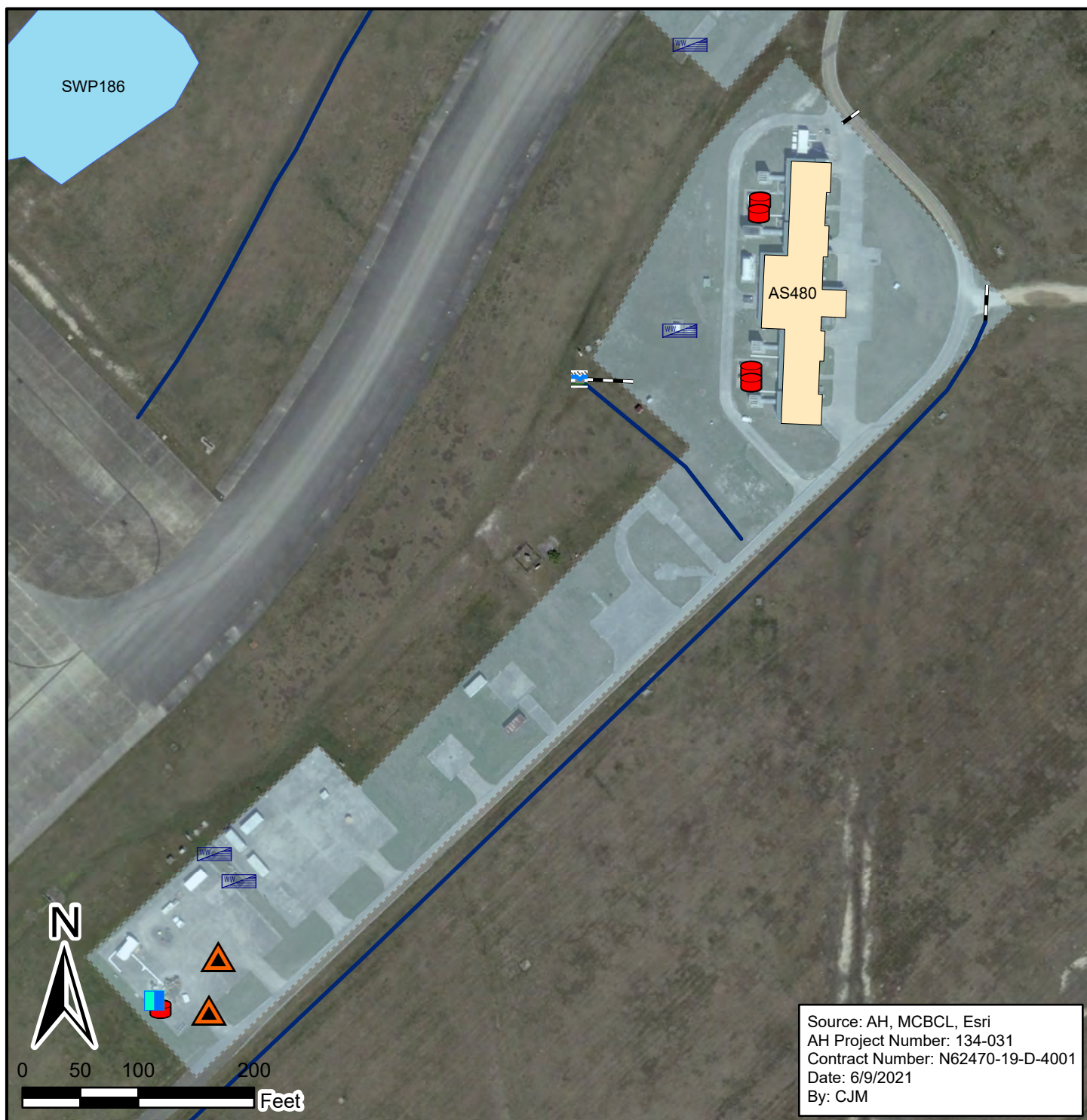
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS427
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 109



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS480
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 110



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS488
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 111



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

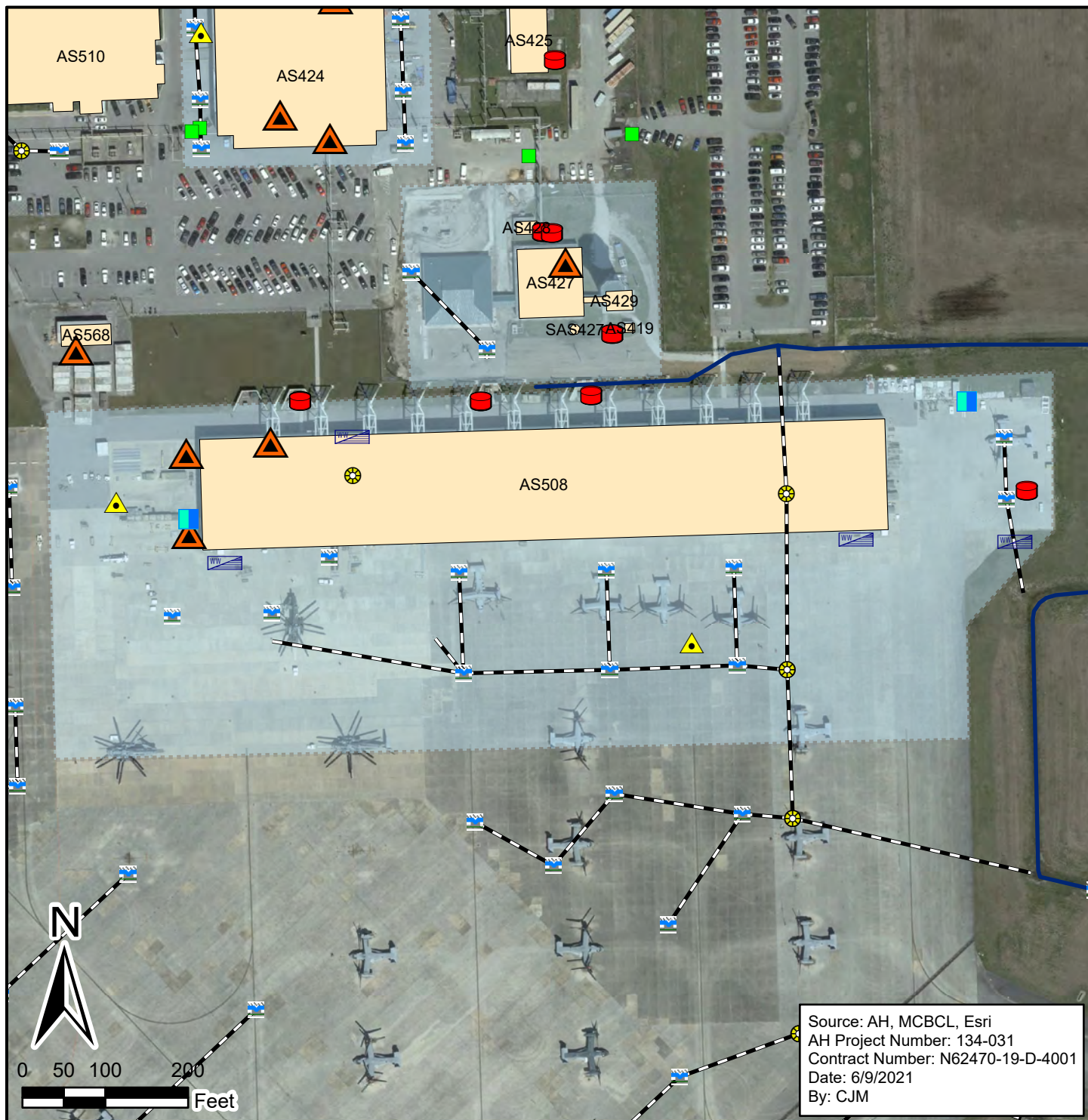


SWPPP Site Maps - Bldg. AS498

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 112



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS508

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 113



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS511

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 114



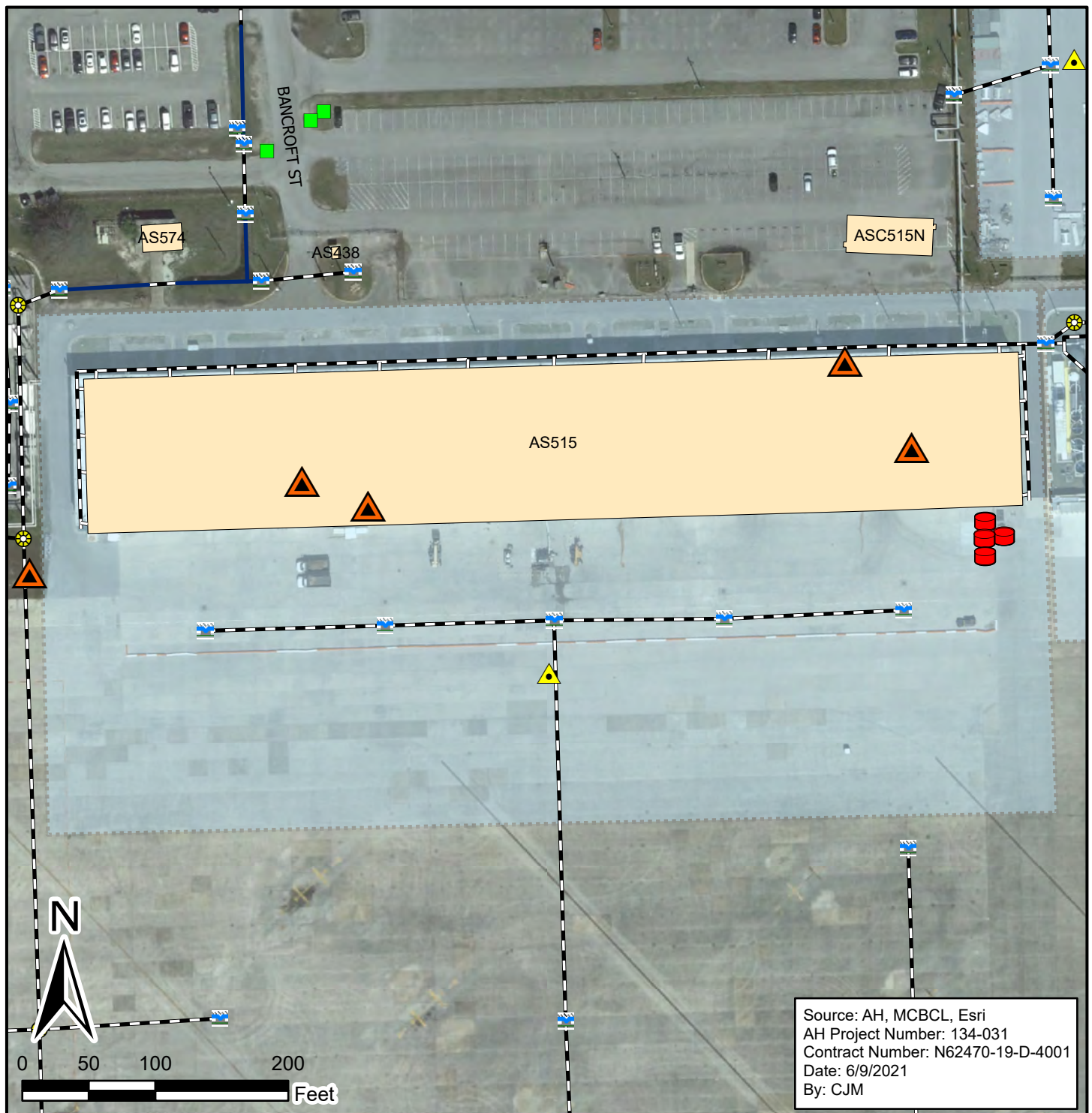
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS514
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 115



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS515
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 116



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

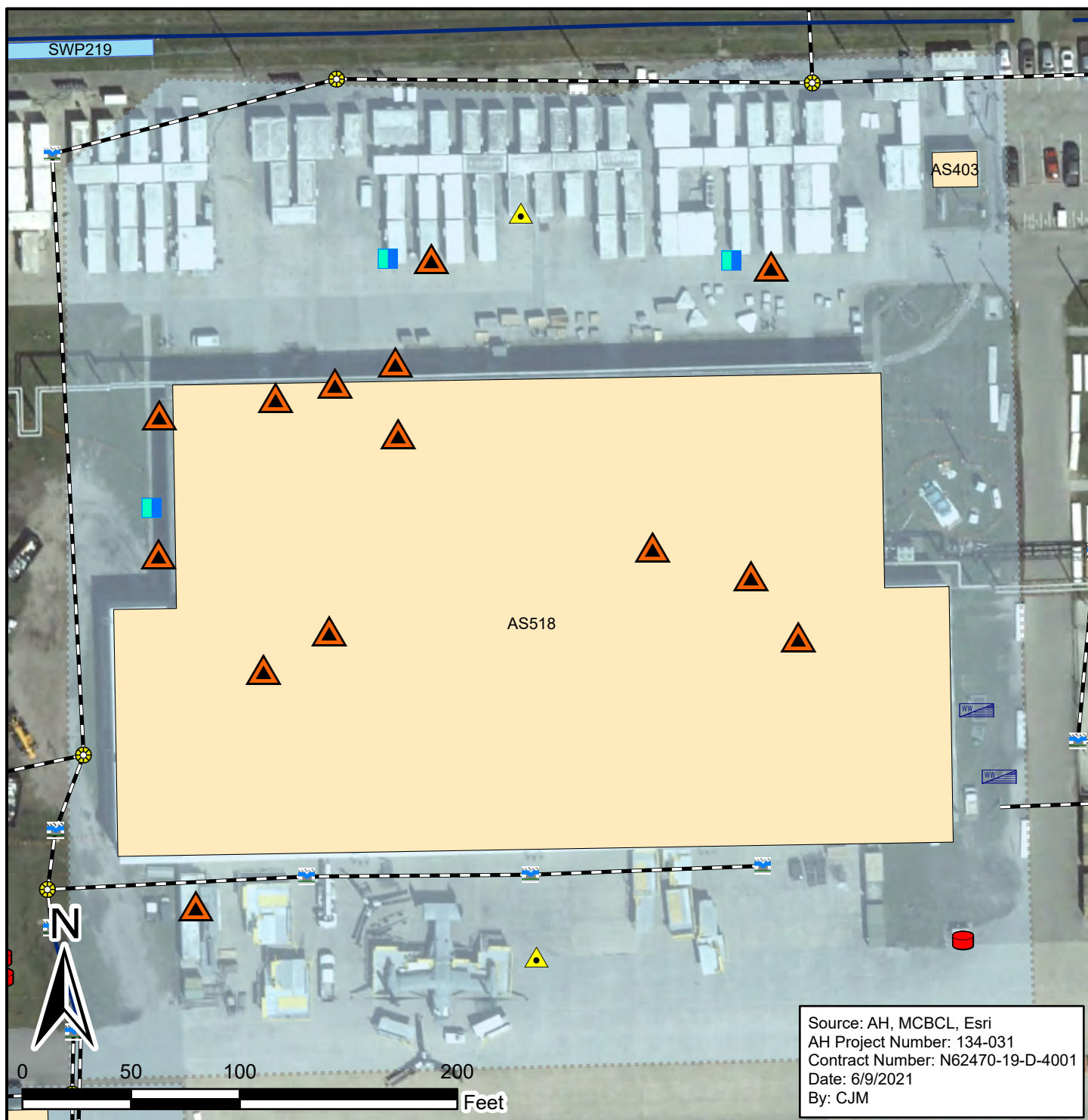


SWPPP Site Maps - Bldg. AS516

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 117



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

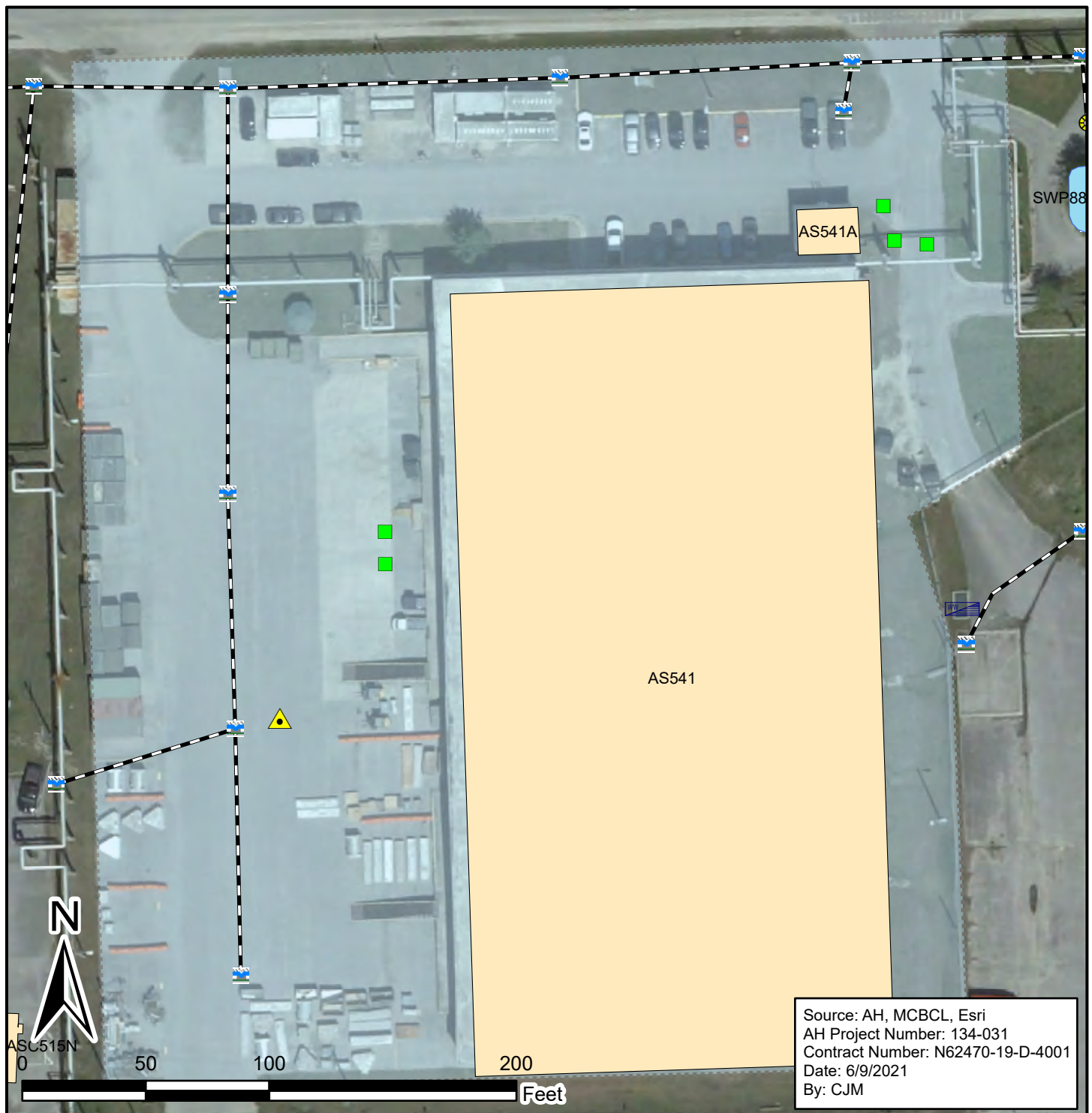


SWPPP Site Maps - Bldg. AS518

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 118



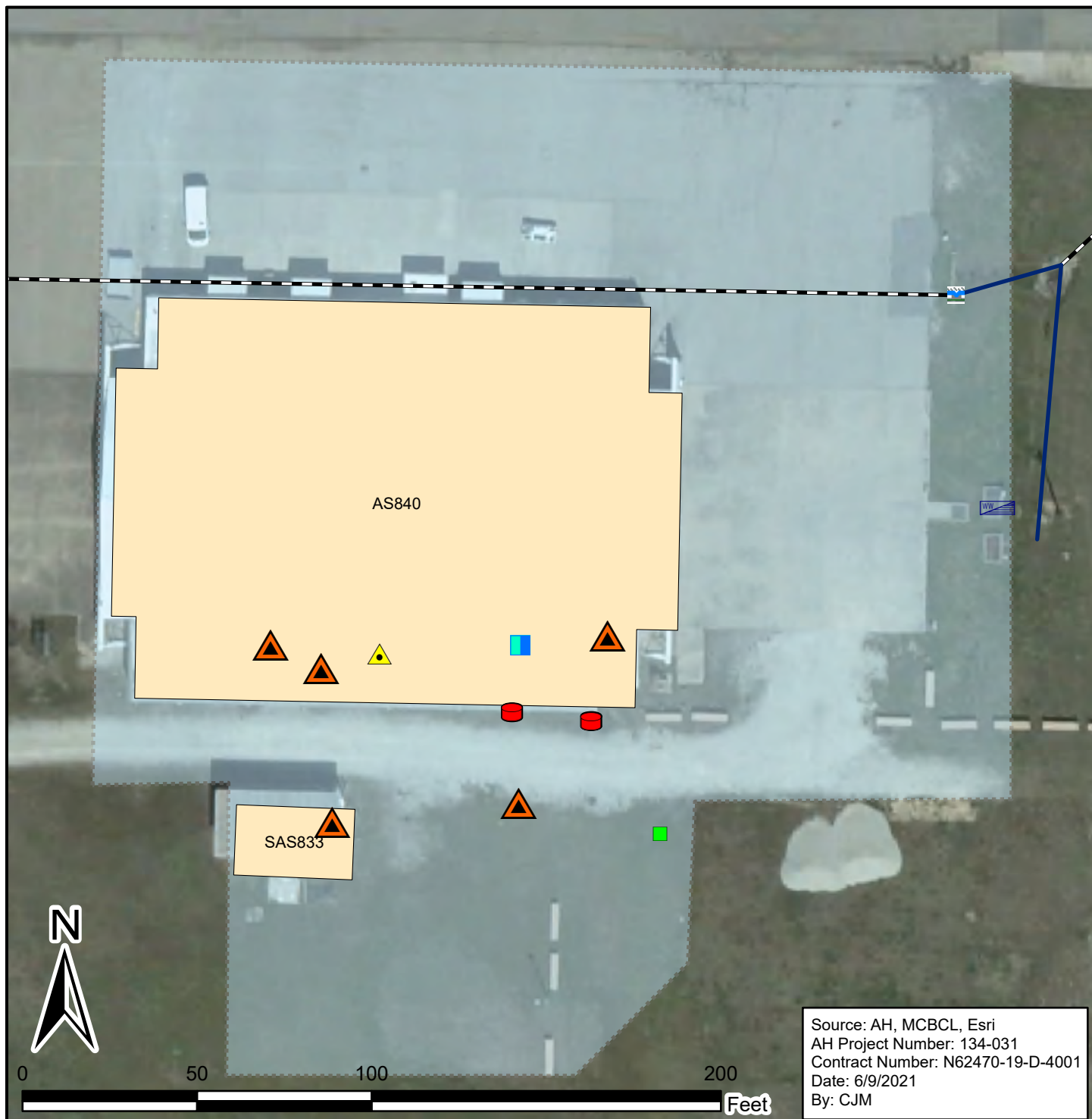
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS541
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 119



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS840
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 120



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. AS842
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 121



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

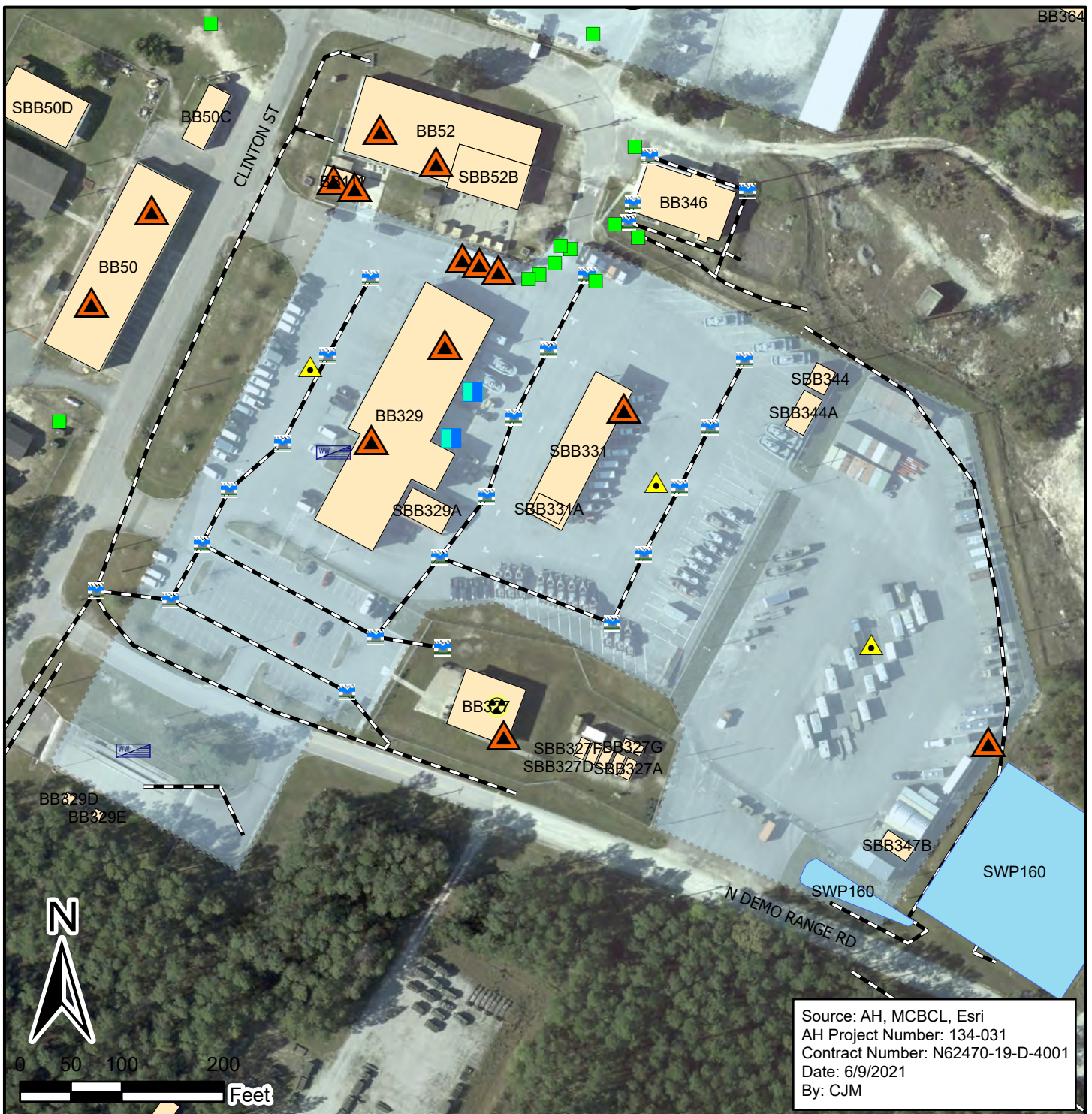


SWPPP Site Maps - Bldg. AS890

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 122



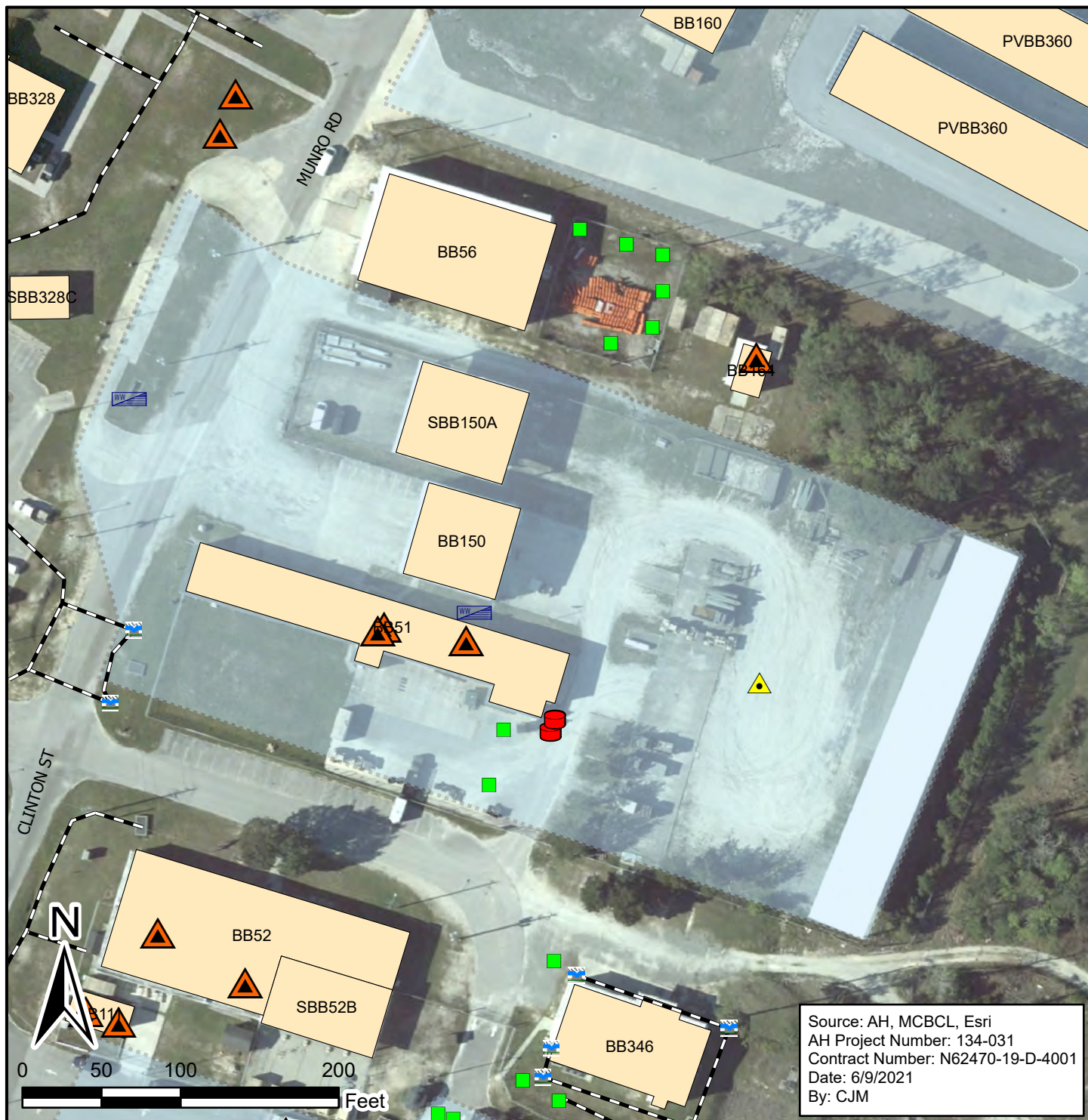
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. BB329
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 123



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. BB51 Stormwater Pollution Prevention Plan Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 125

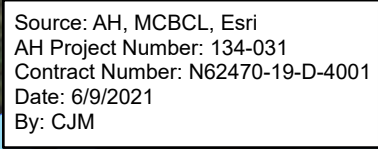
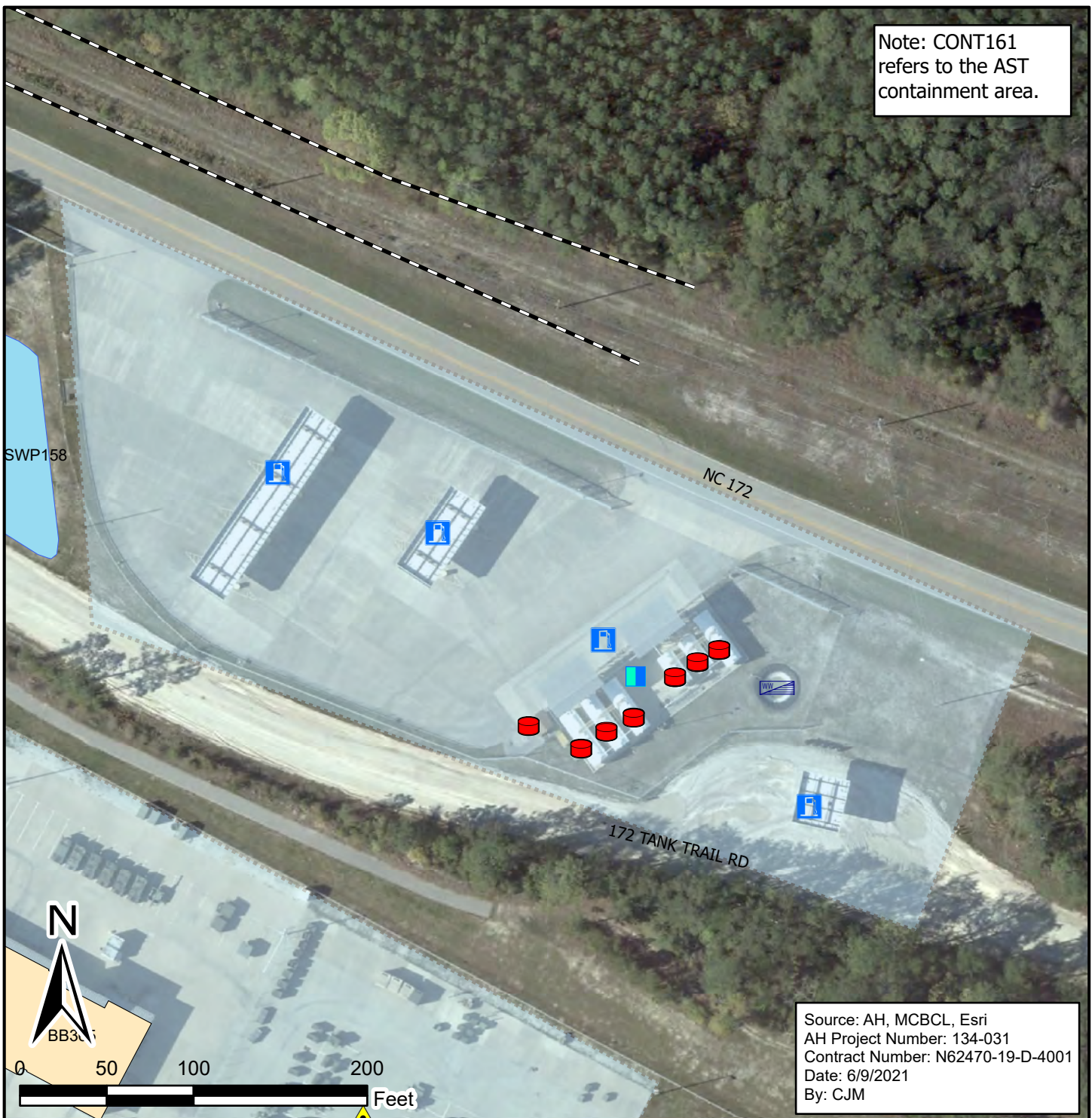


Figure
J - 126

Note: CONT161 refers to the AST containment area.



Source: AH, MCBCL, Esri
 AH Project Number: 134-031
 Contract Number: N62470-19-D-4001
 Date: 6/9/2021
 By: CJM

Legend

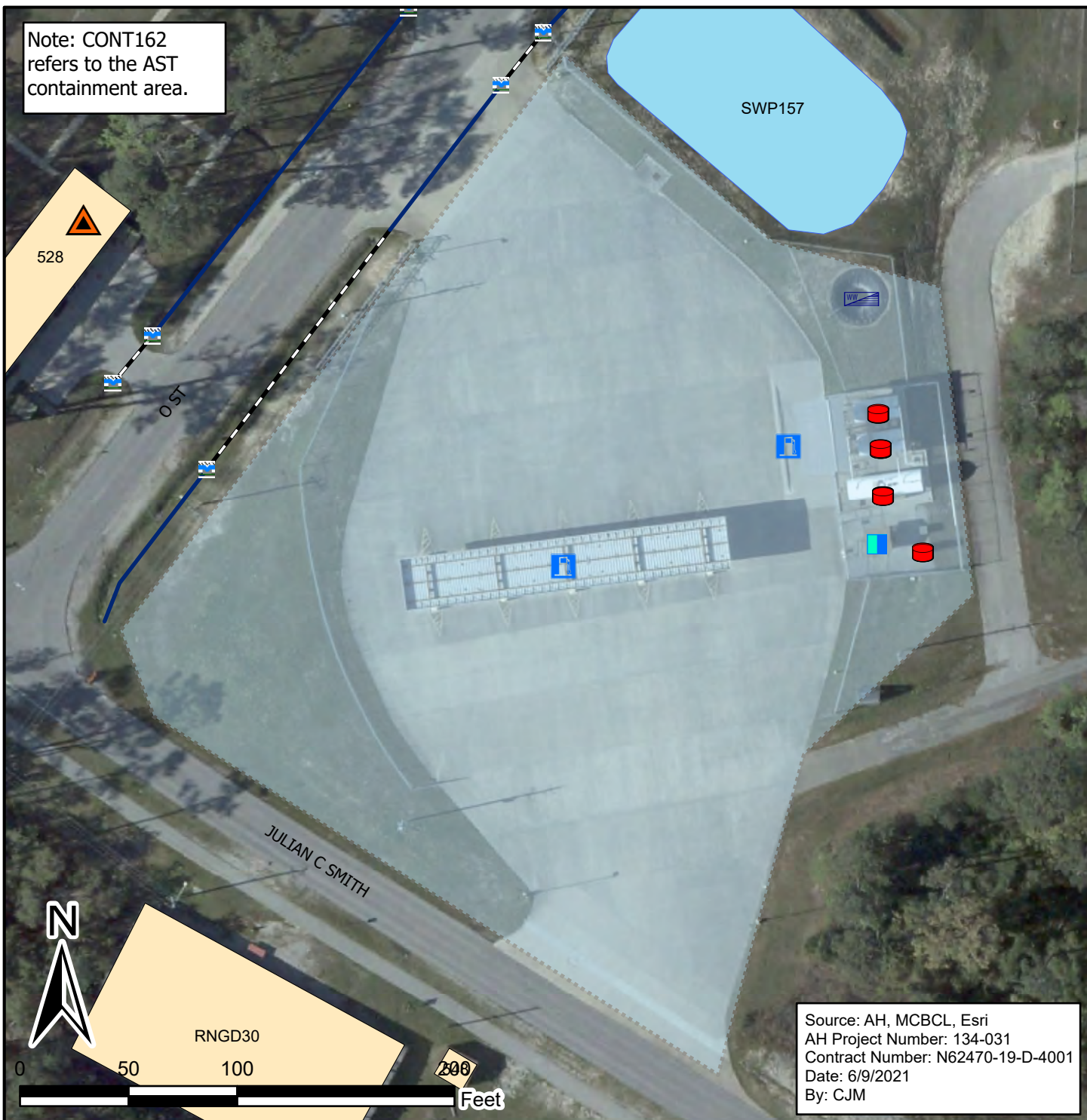
- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. CONT161
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 127

Note: CONT162 refers to the AST containment area.



Source: AH, MCBCL, Esri
 AH Project Number: 134-031
 Contract Number: N62470-19-D-4001
 Date: 6/9/2021
 By: CJM

Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. CONT162
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 128



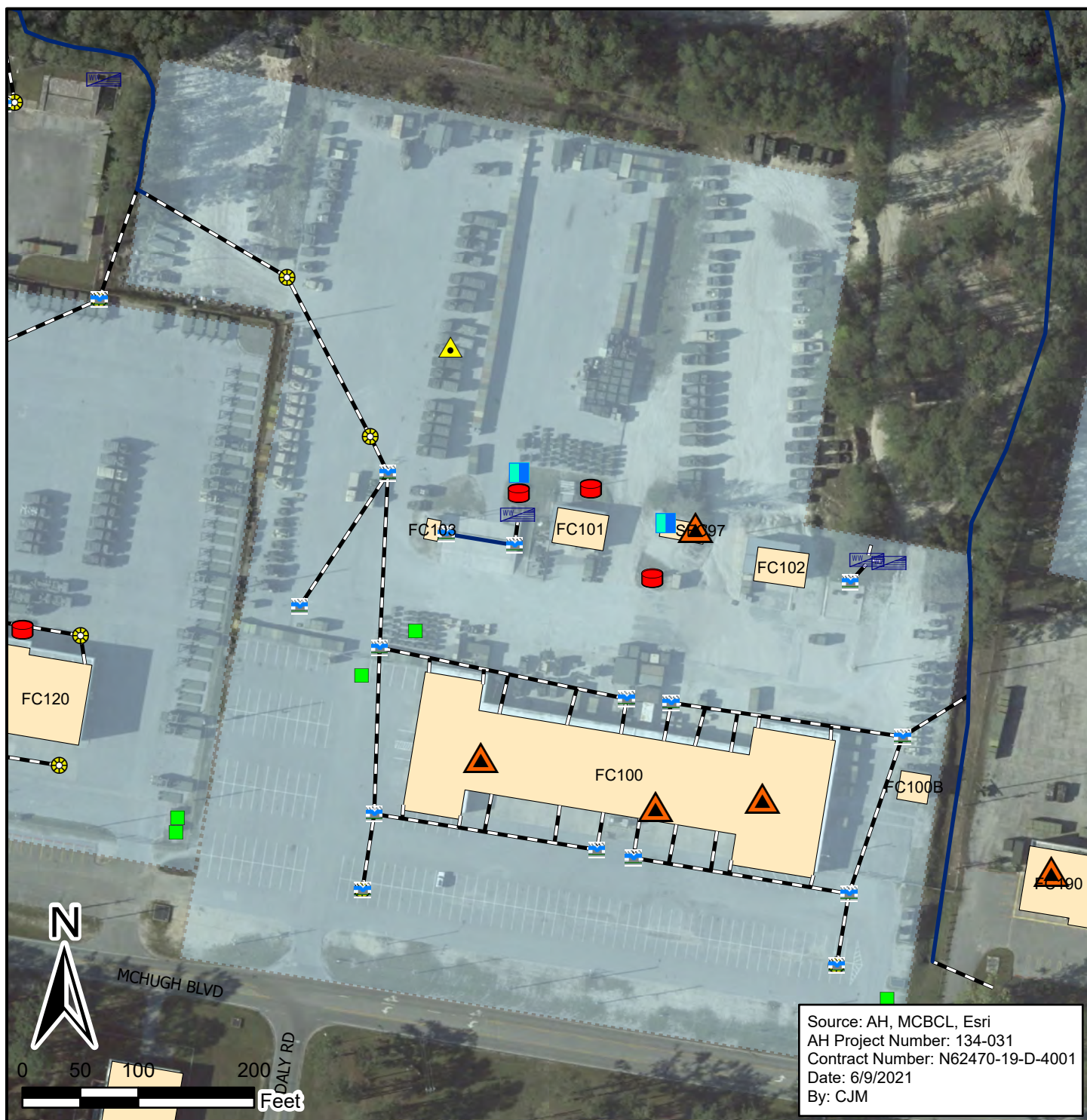
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. ES101
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 129



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

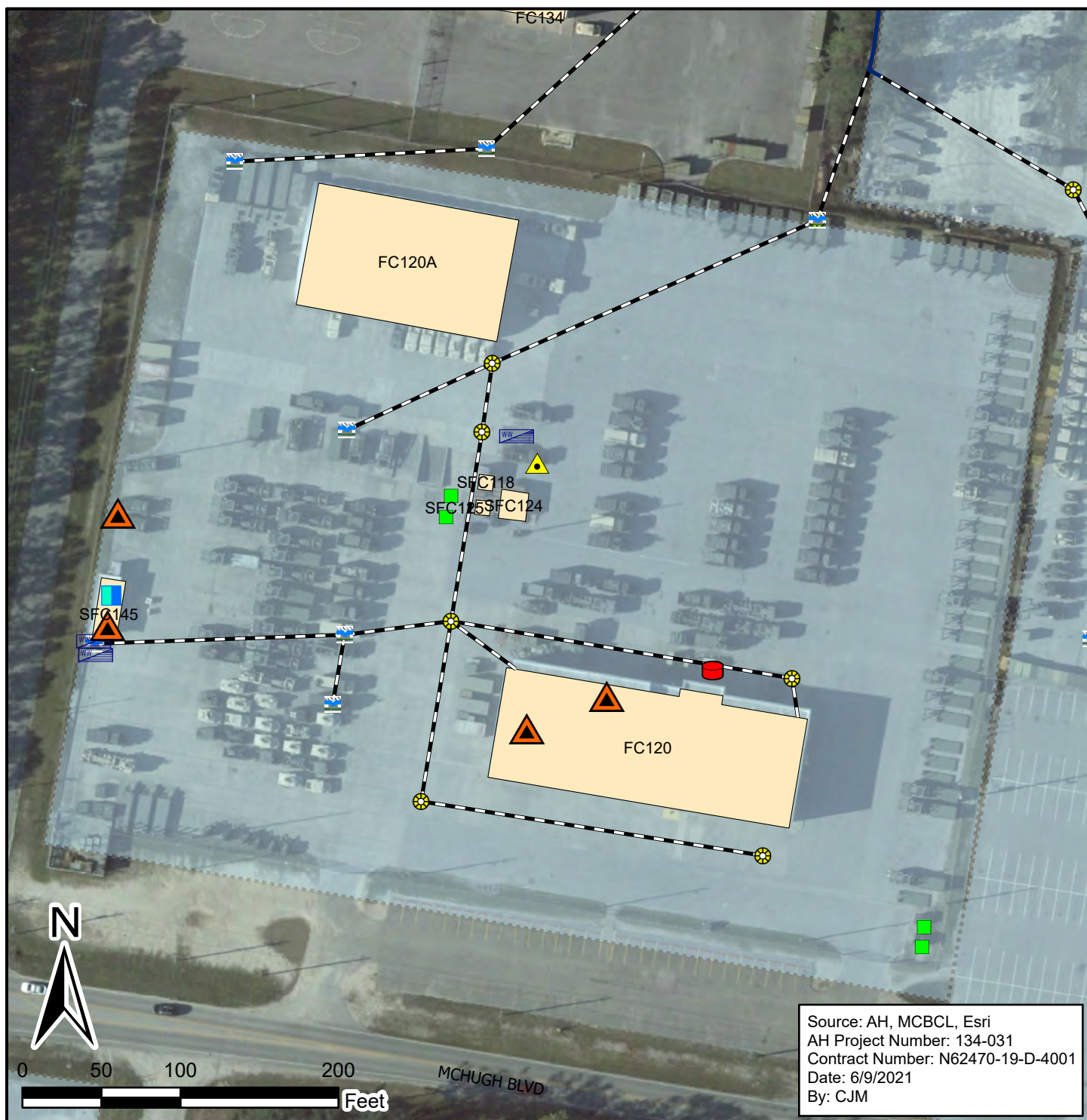


SWPPP Site Maps - Bldg. FC100

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 130



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

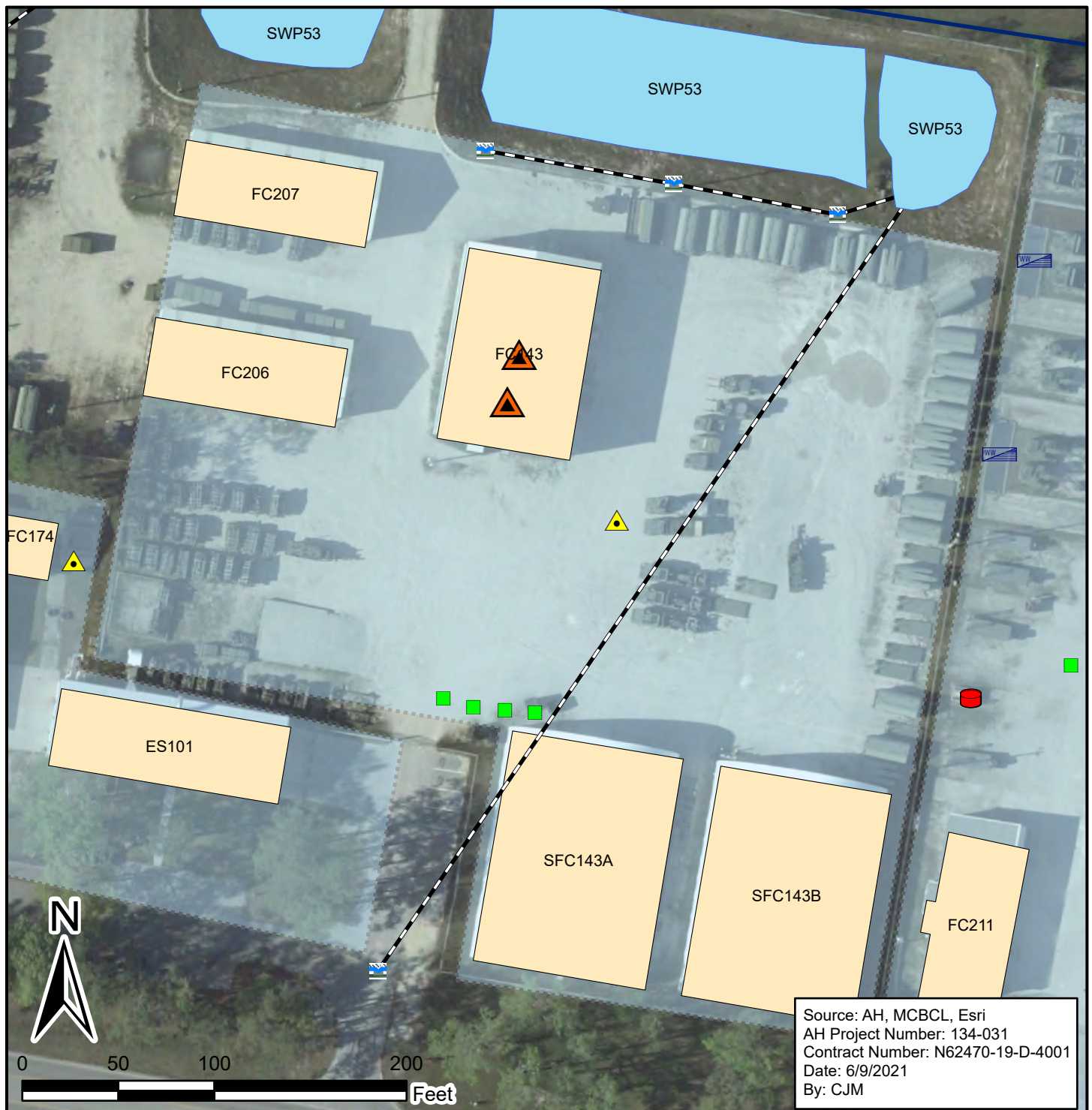


SWPPP Site Maps - Bldg. FC120

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 131



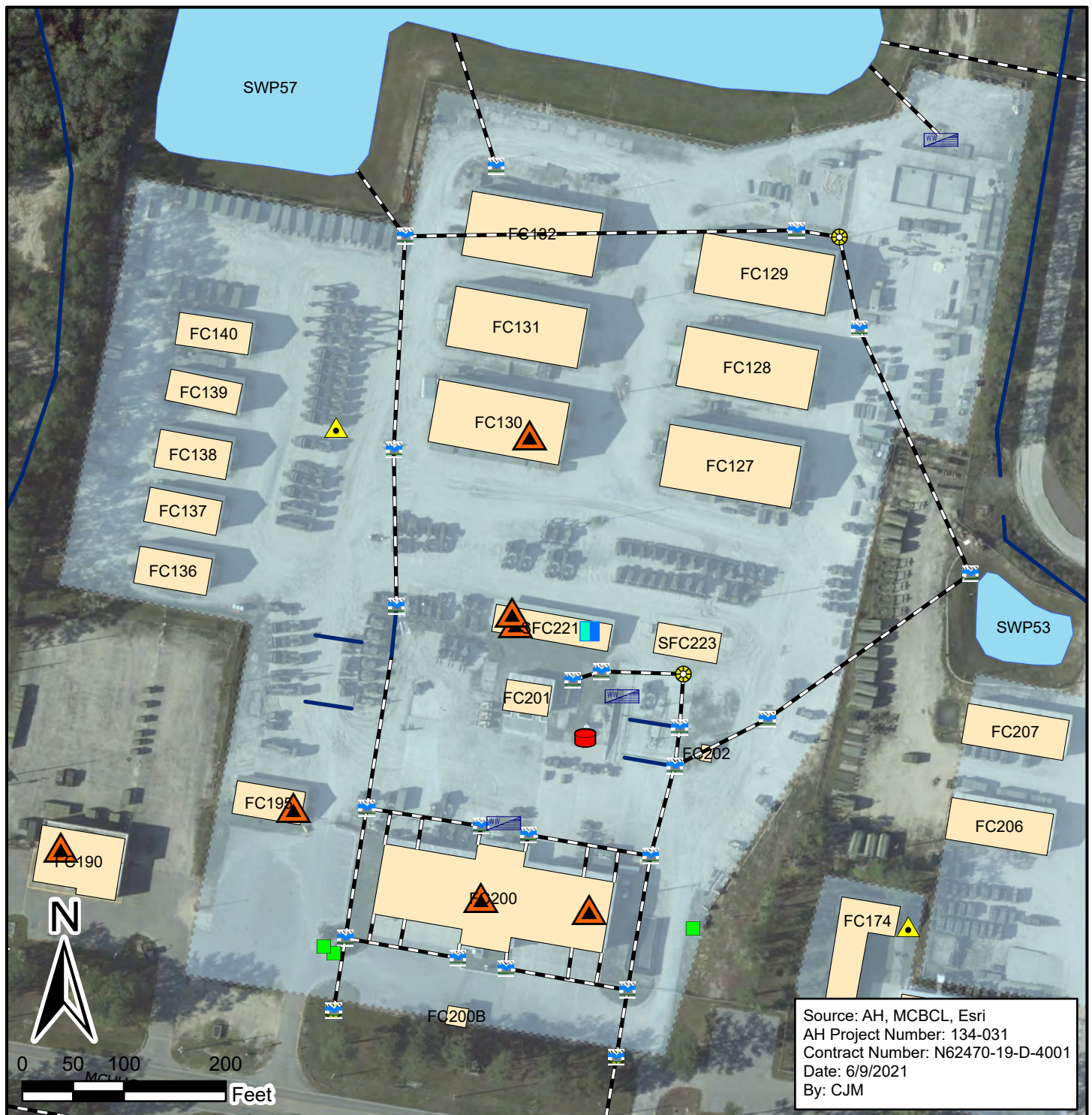
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. FC143
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 132



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

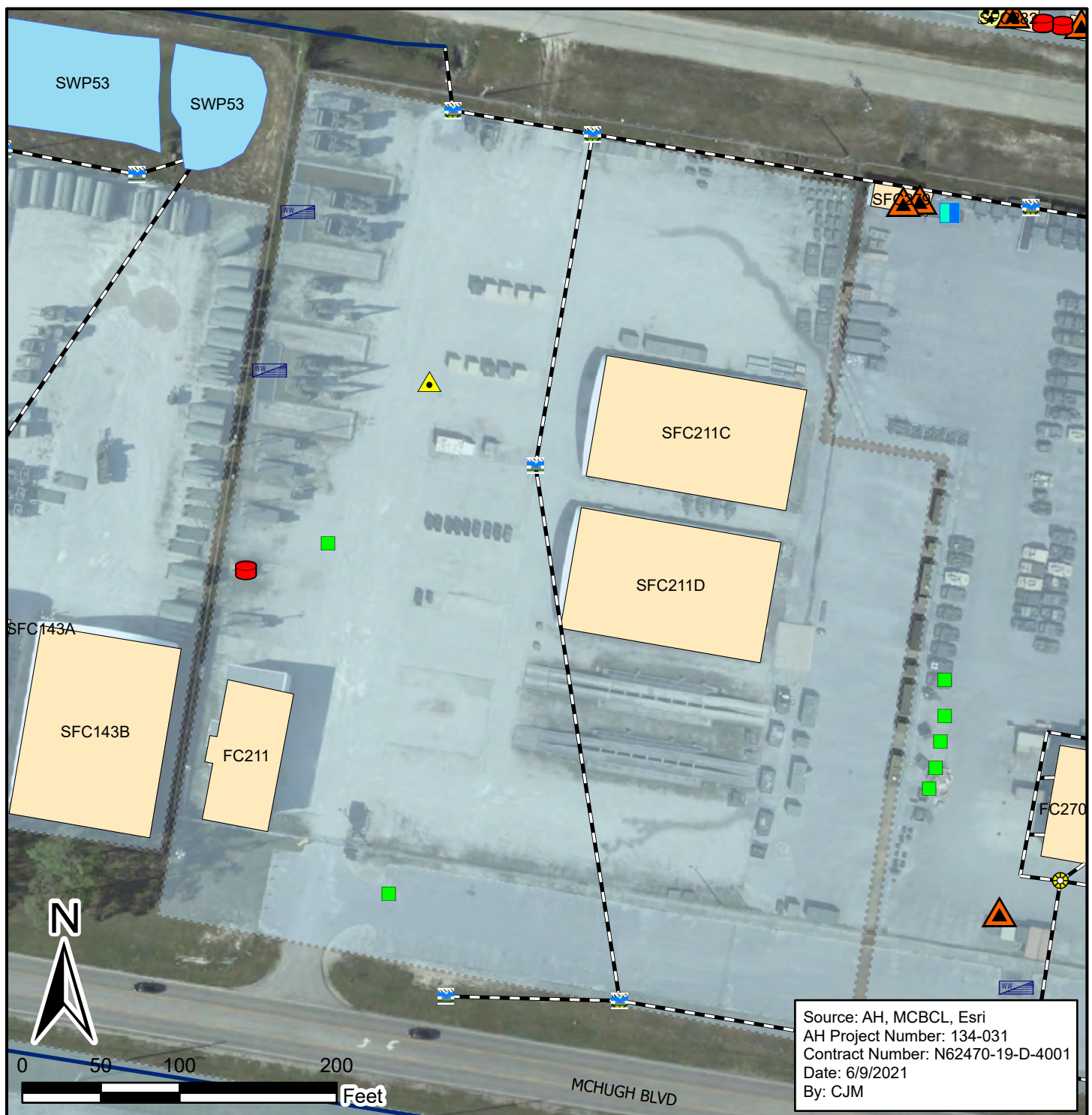


SWPPP Site Maps - Bldg. FC200

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 133



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

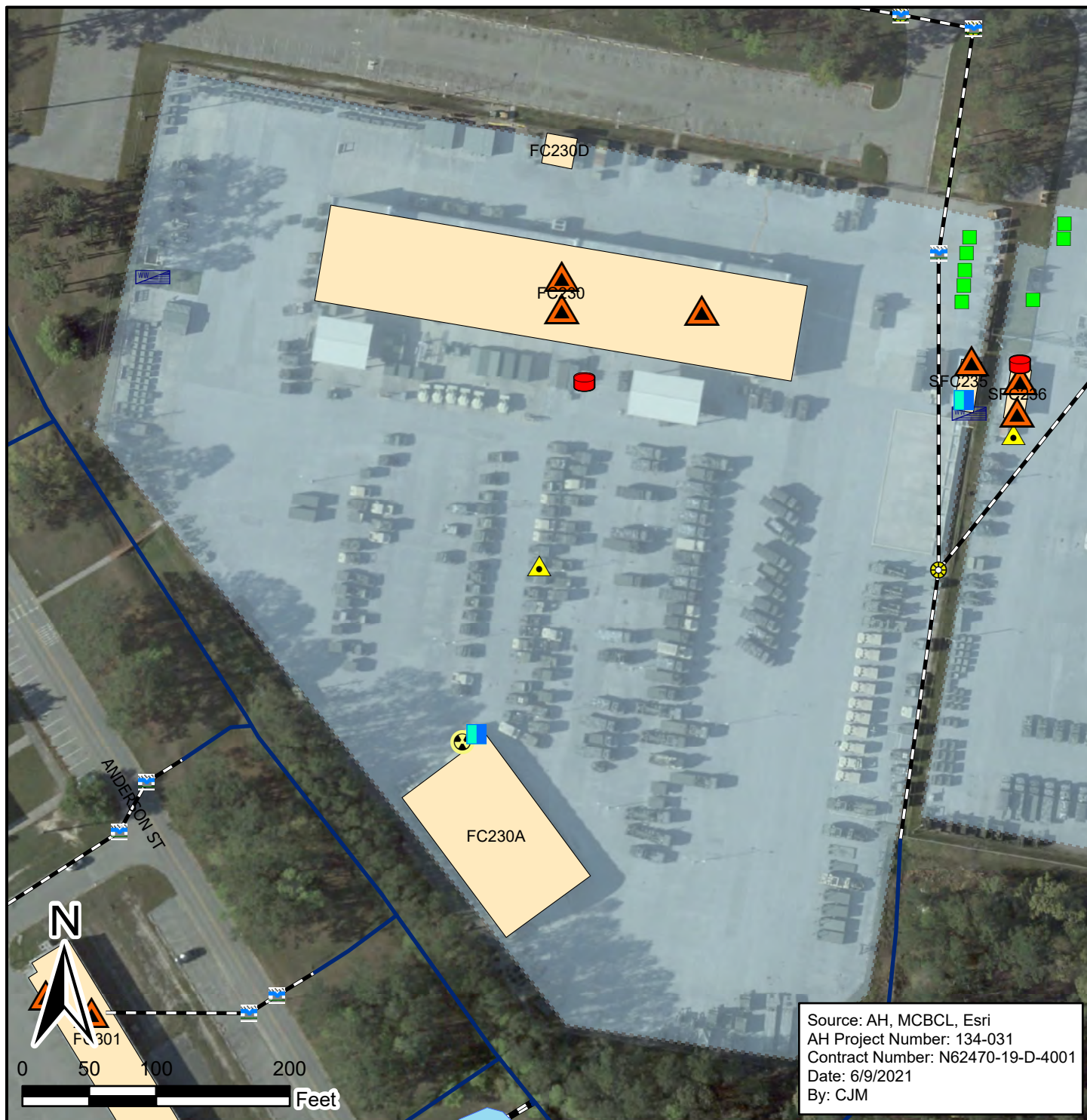


SWPPP Site Maps - Bldg. FC211

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 134



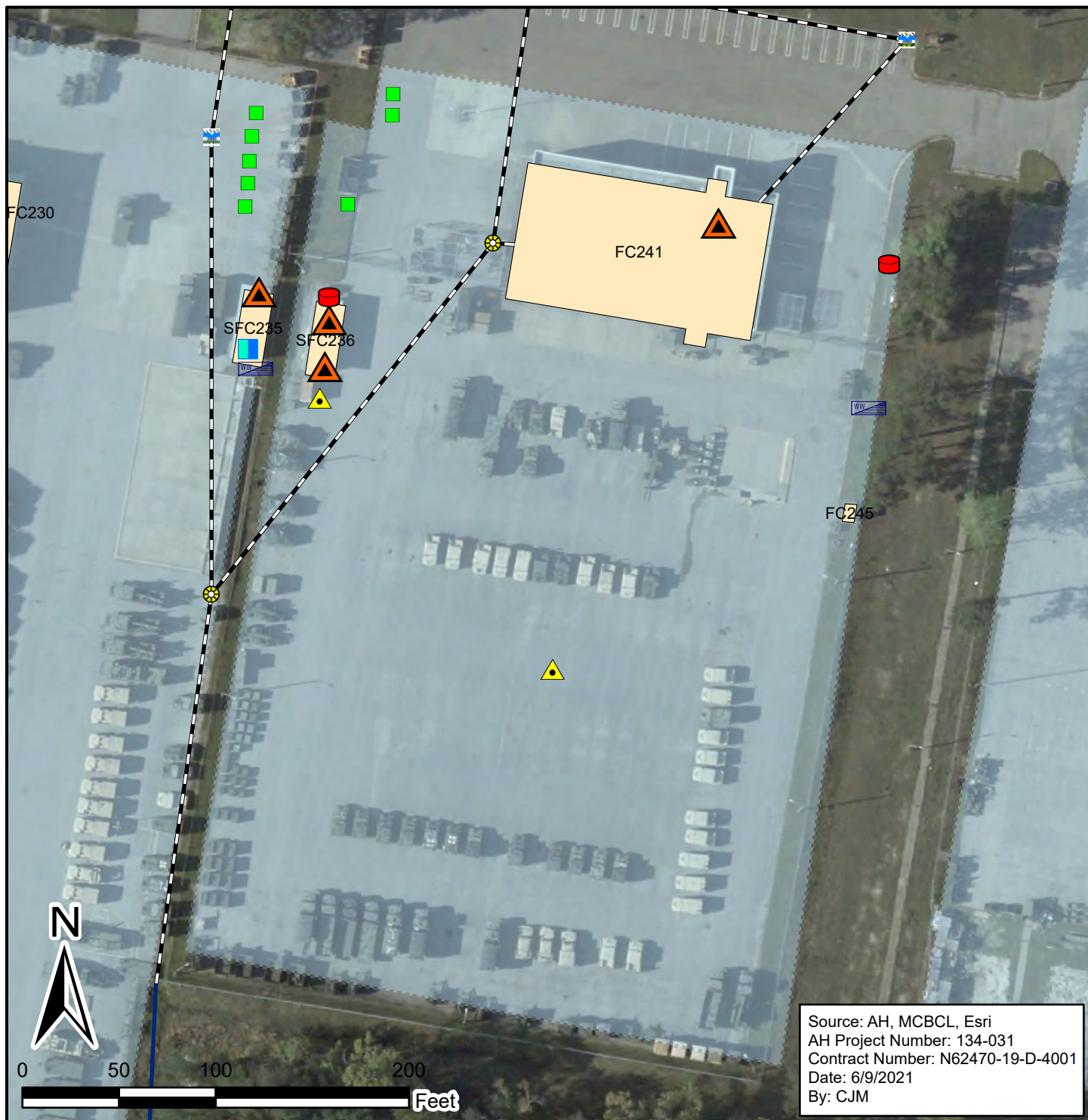
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. FC230
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 135



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

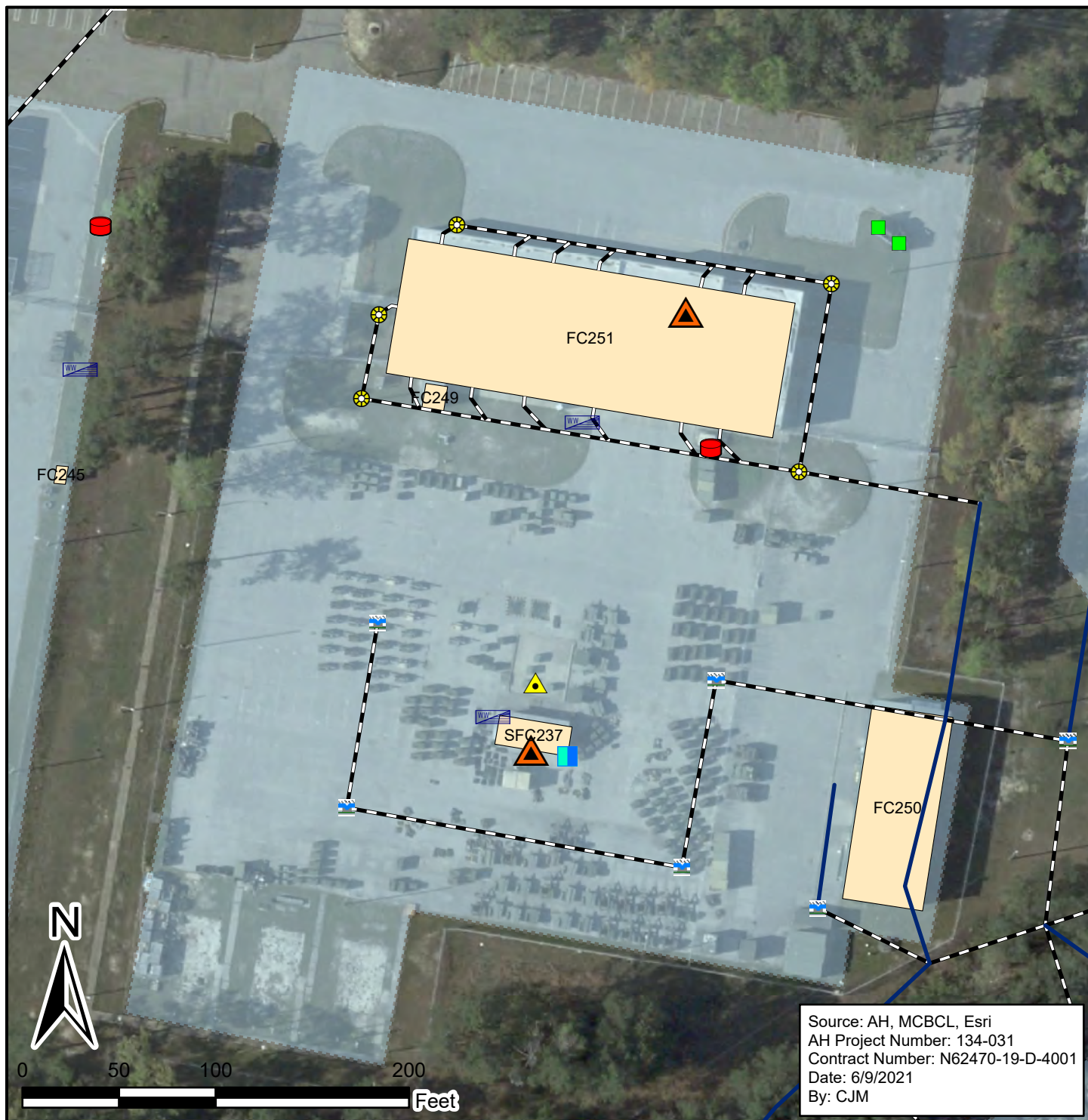


SWPPP Site Maps - Bldg. FC241

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 136



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

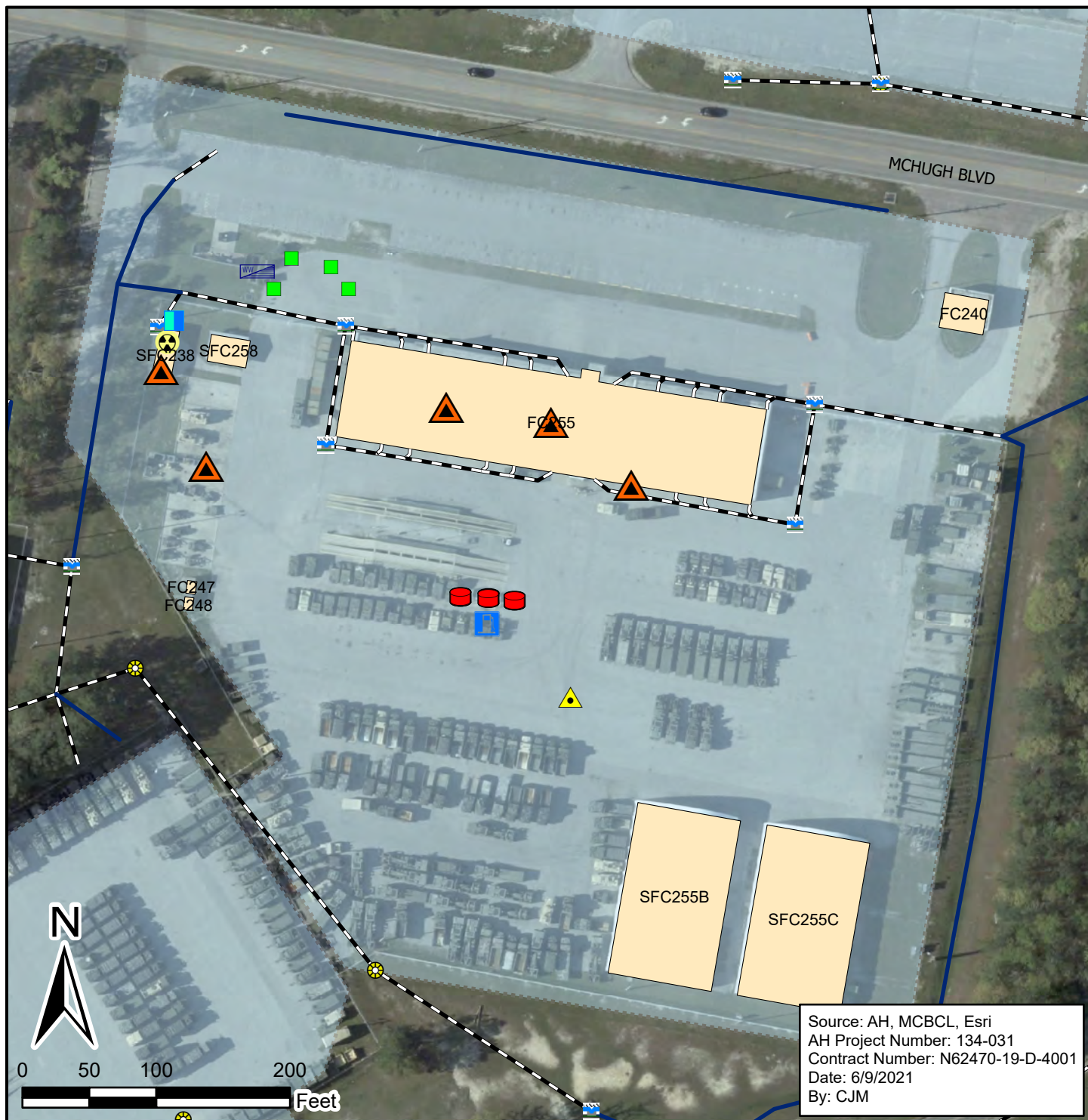


SWPPP Site Maps - Bldg. FC251

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 137



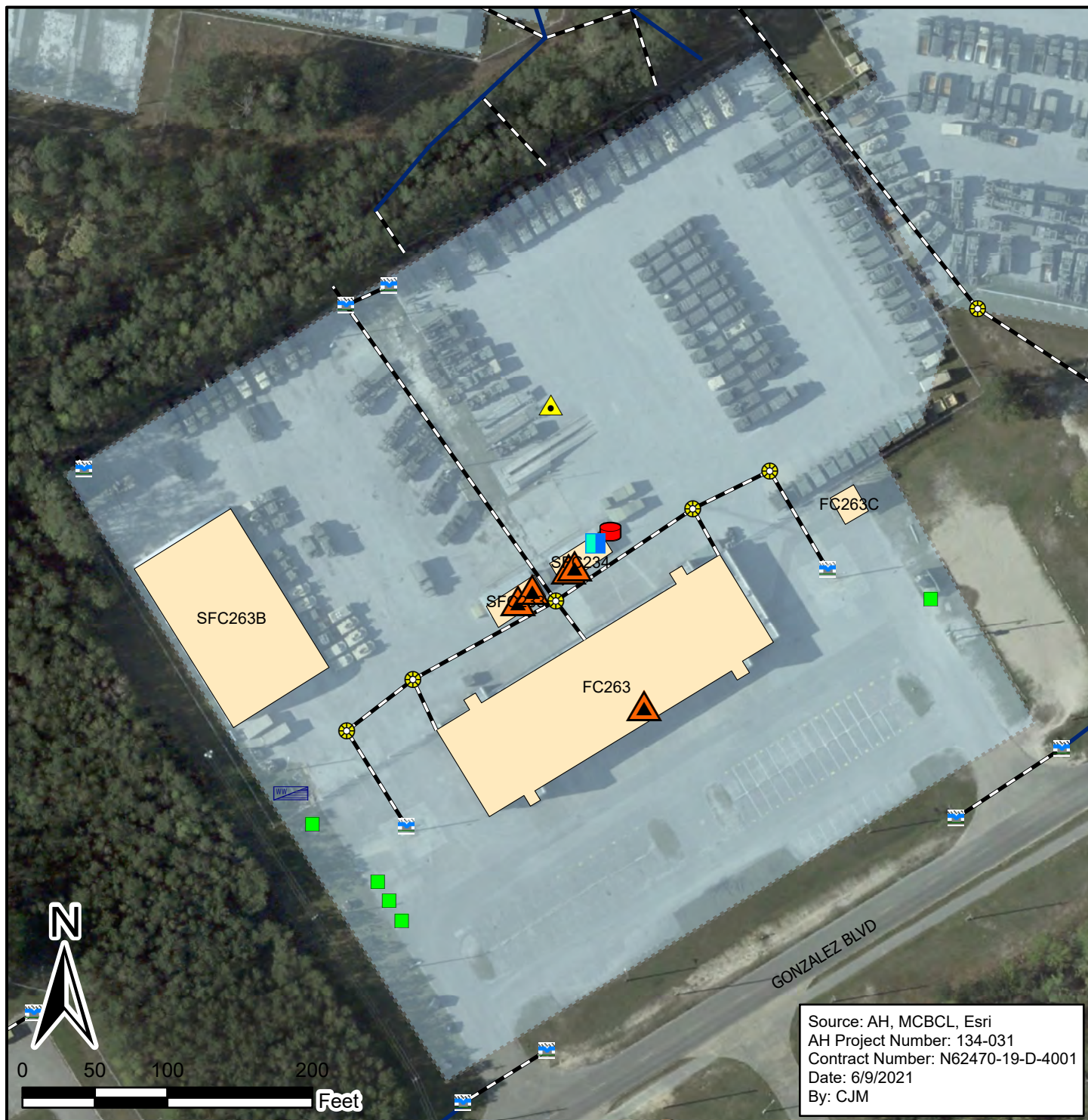
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. FC255
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 138



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

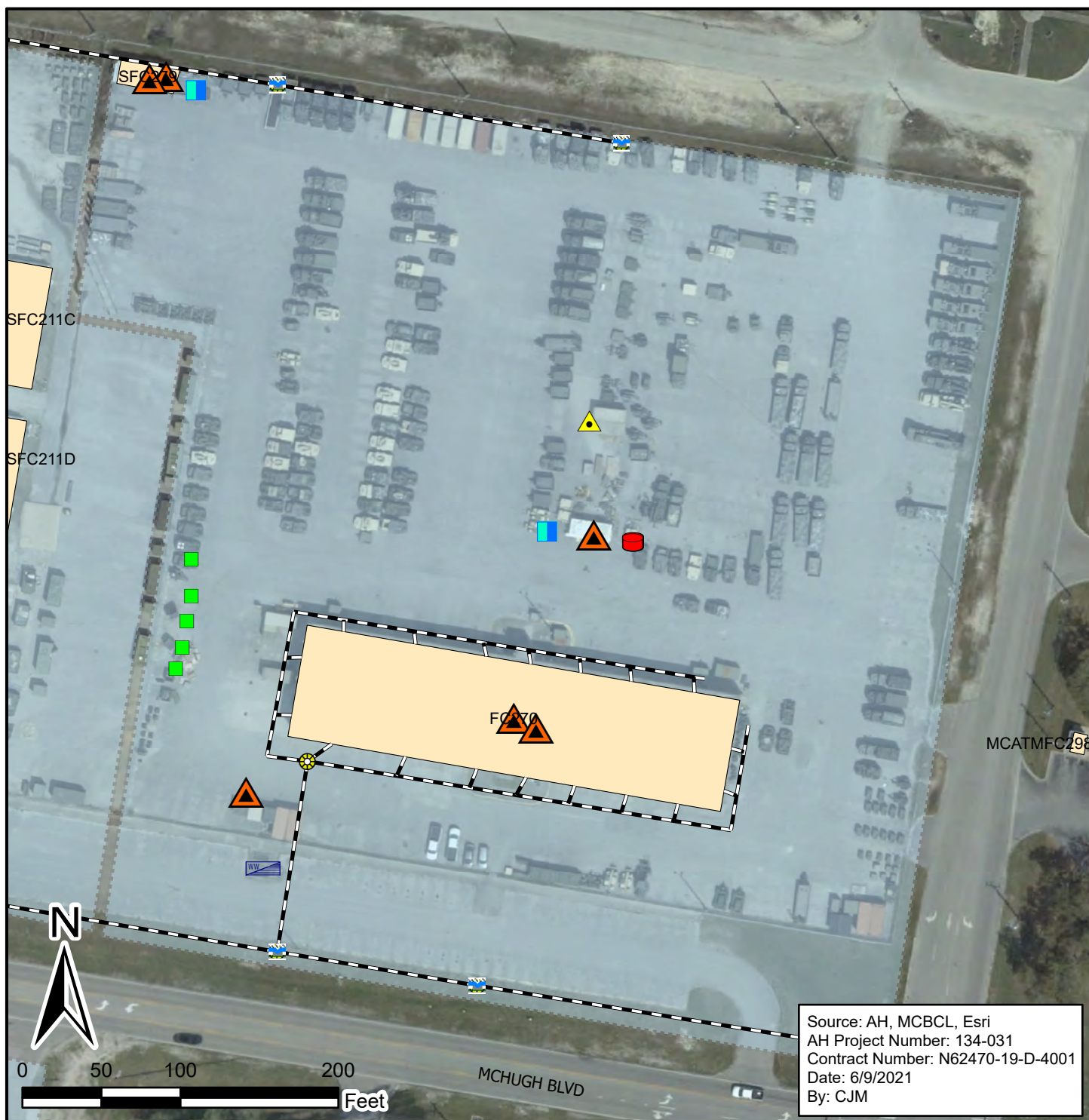


SWPPP Site Maps - Bldg. FC263

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 139



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. FC270
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 140



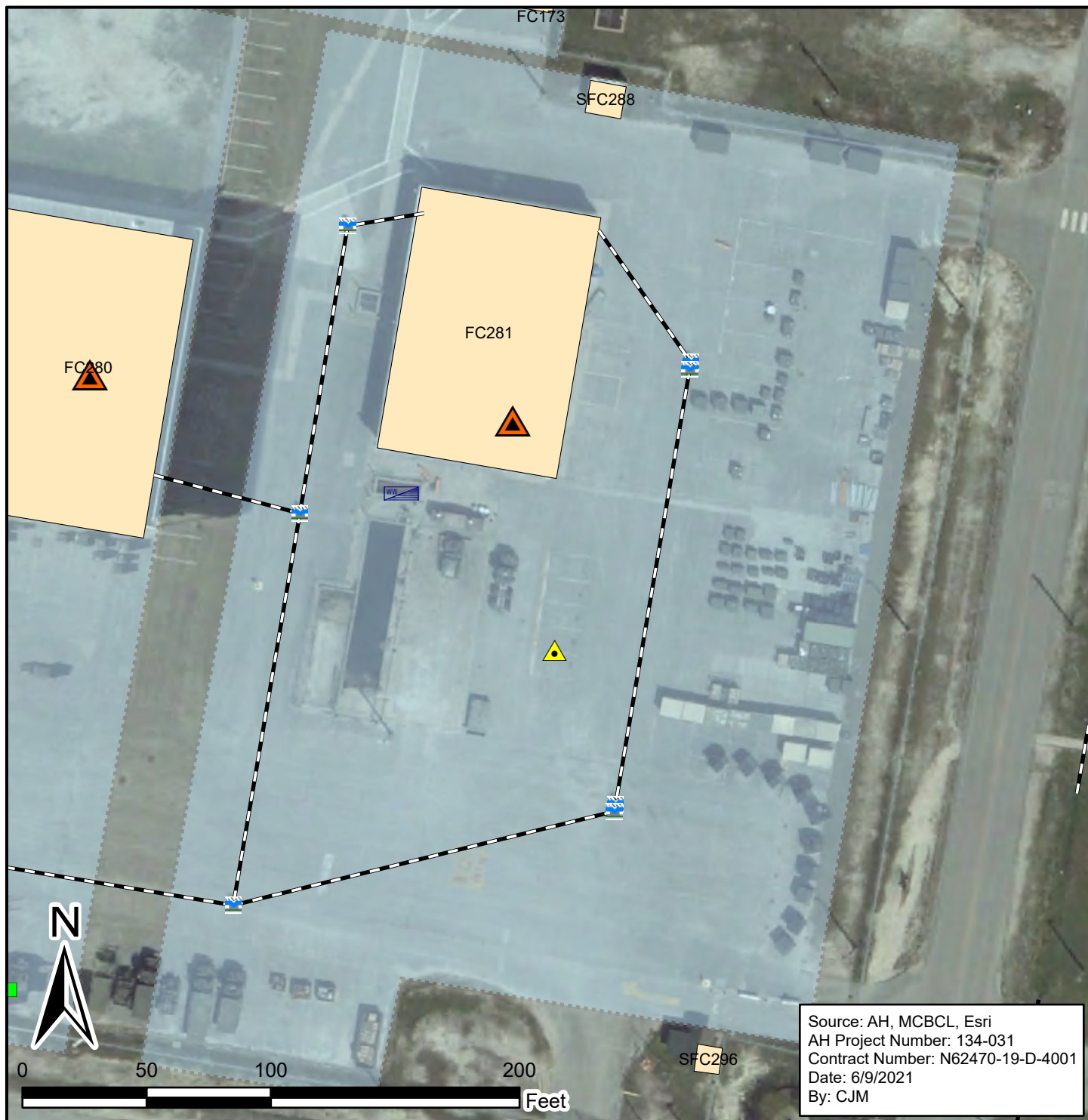
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. FC280
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 141



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

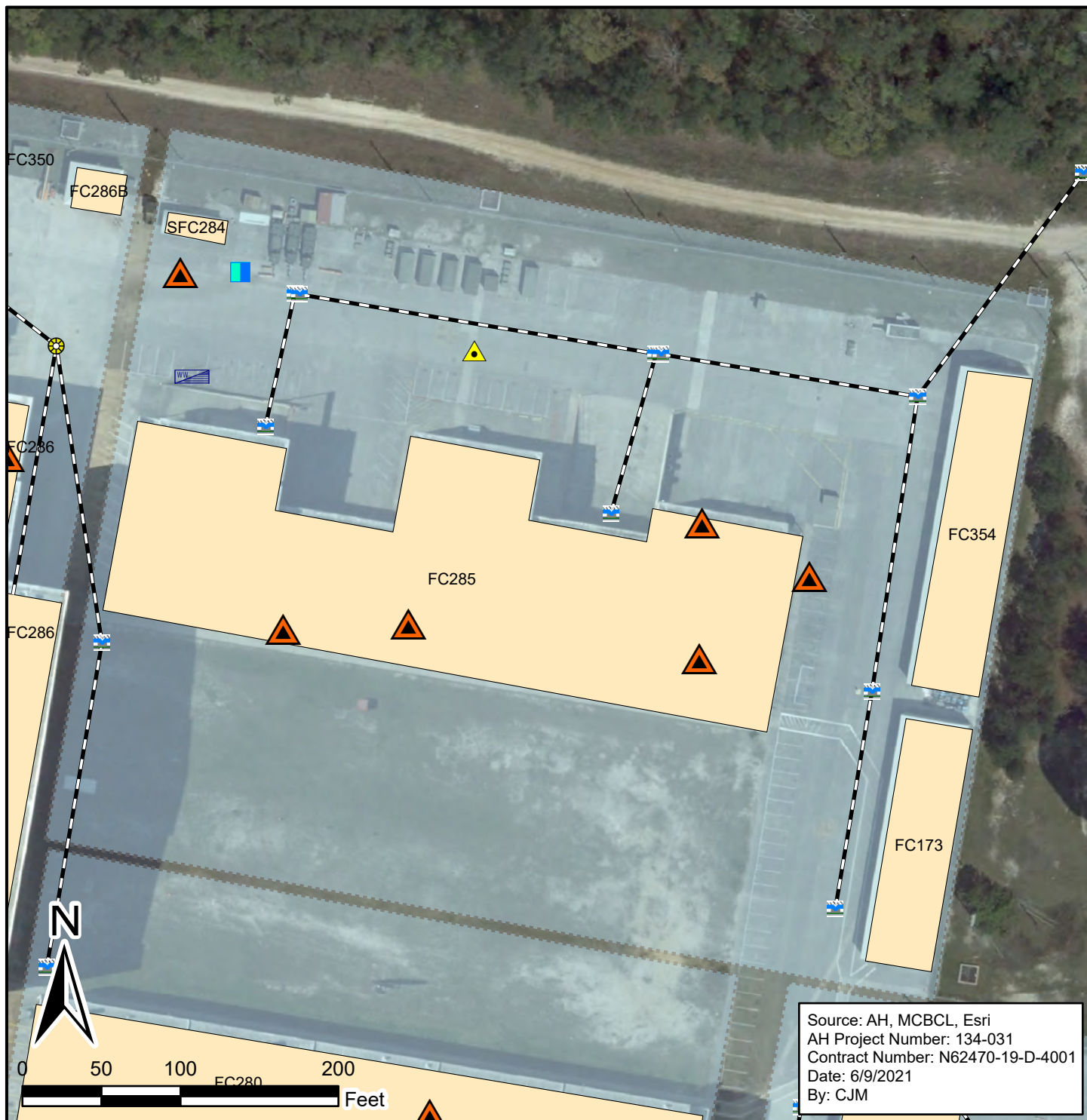


SWPPP Site Maps - Bldg. FC281

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 142



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

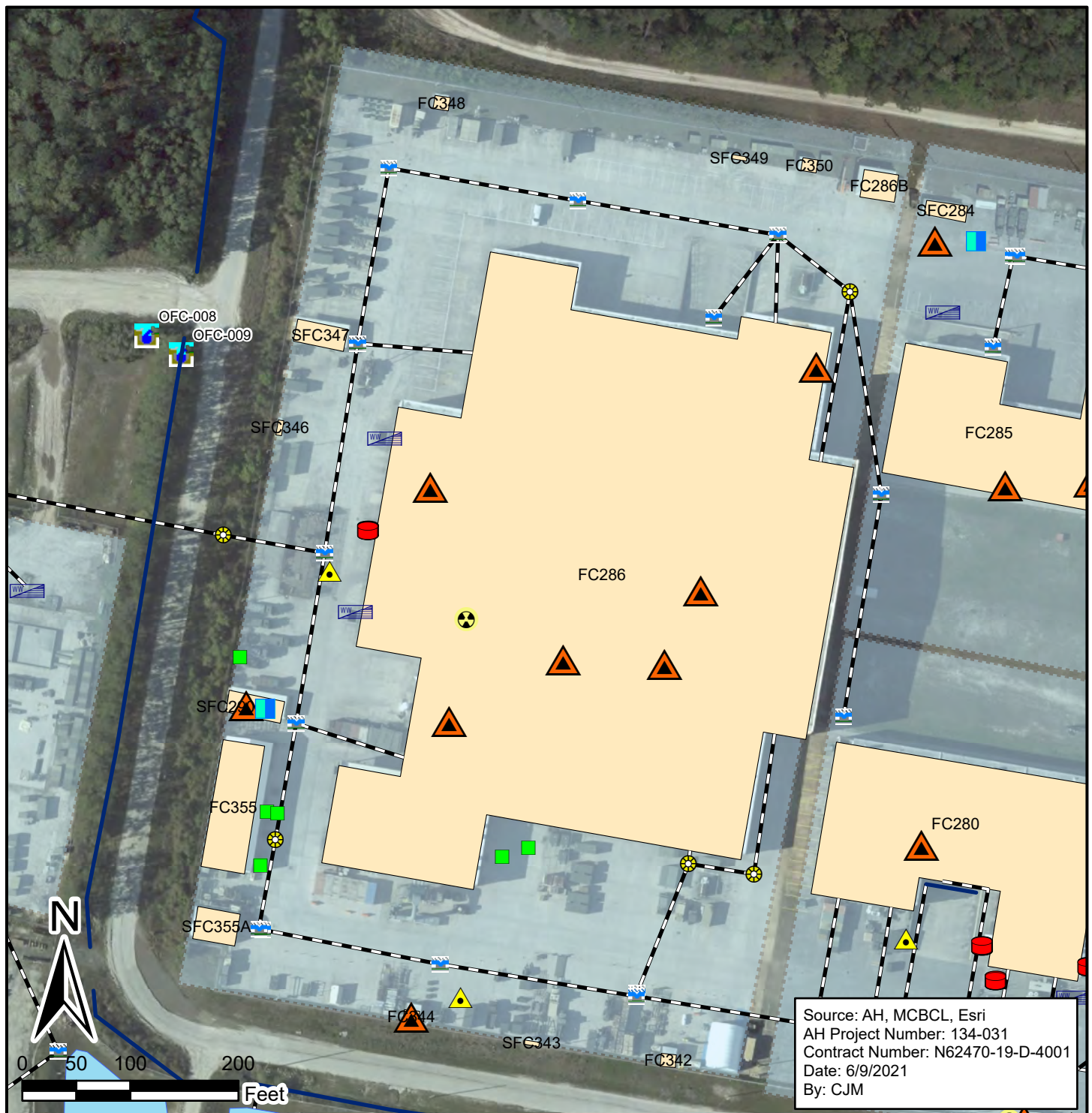


SWPPP Site Maps - Bldg. FC285

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 143



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. FC286

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 144

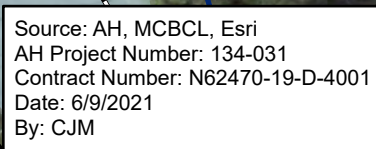
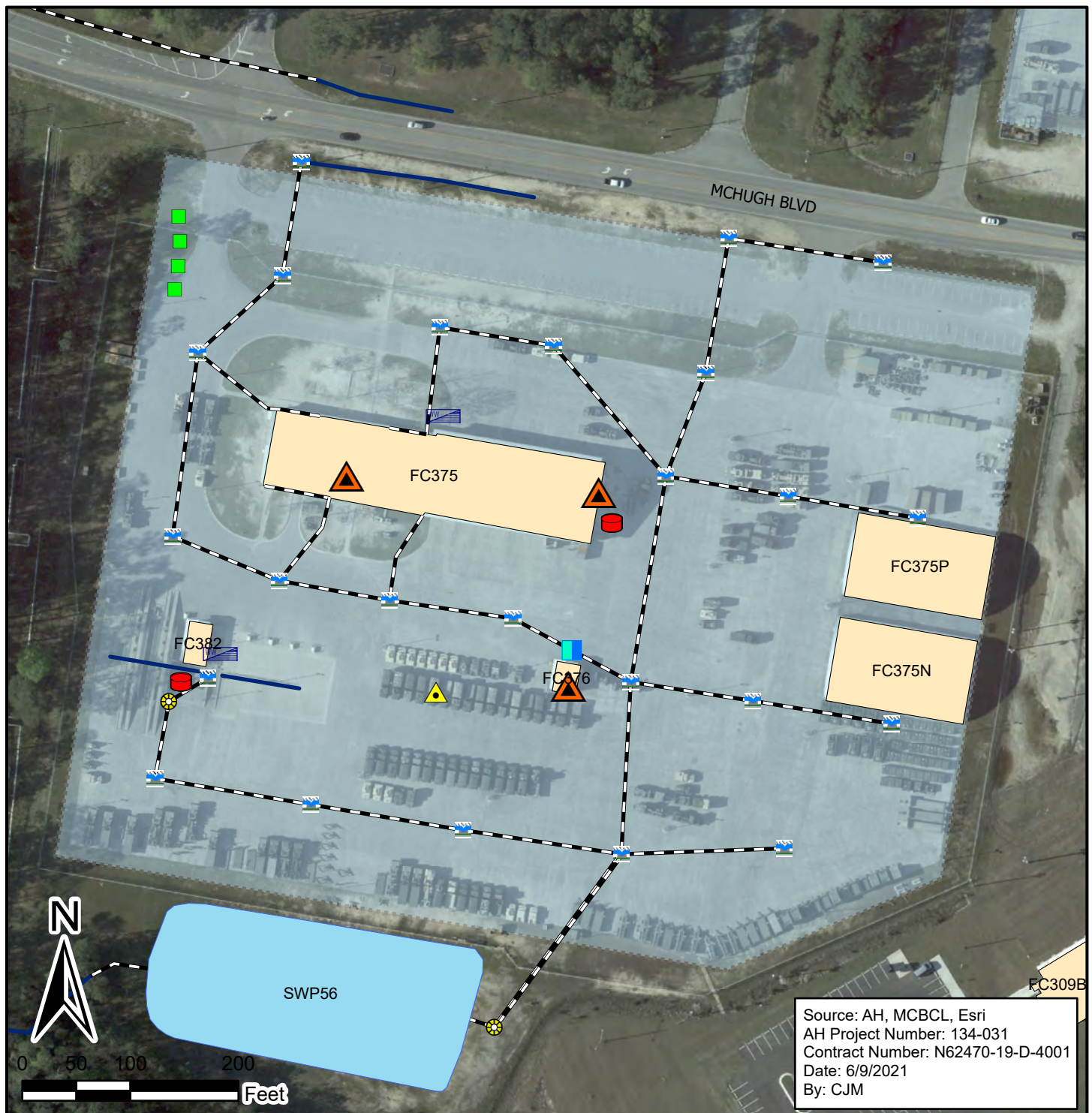


Figure
J - 145



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

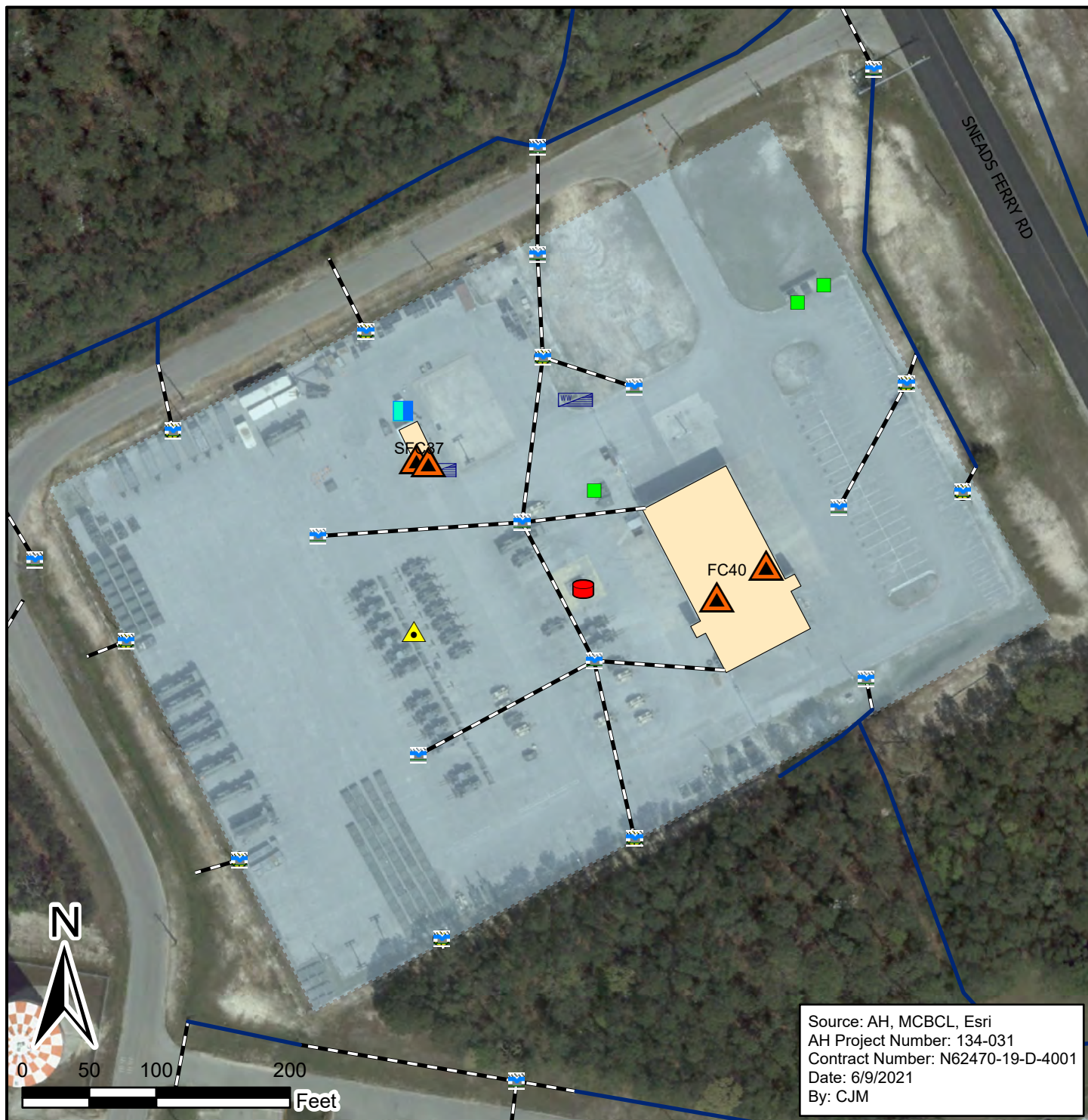


SWPPP Site Maps - Bldg. FC375

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 146



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

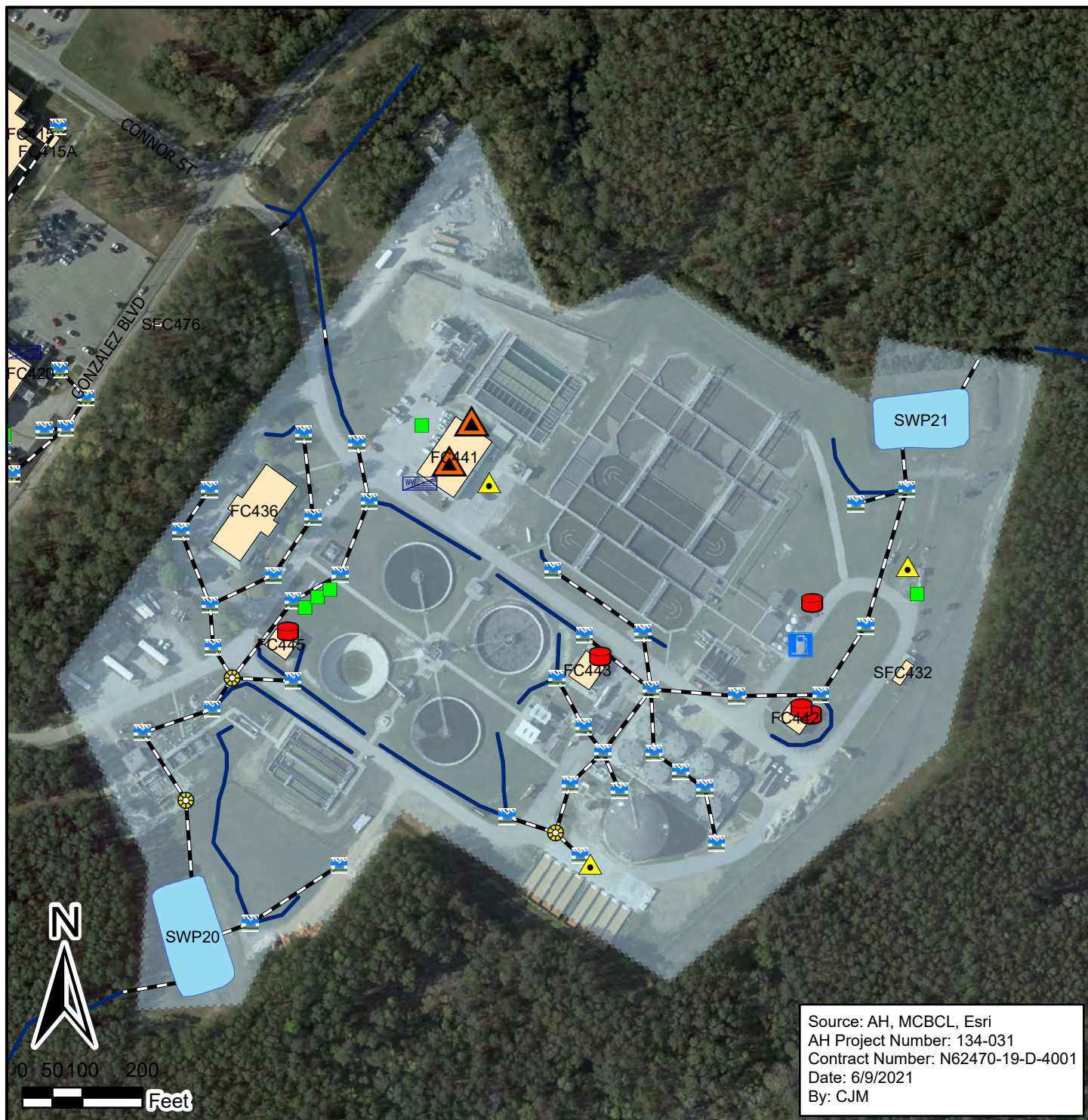


SWPPP Site Maps - Bldg. FC40

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 147



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

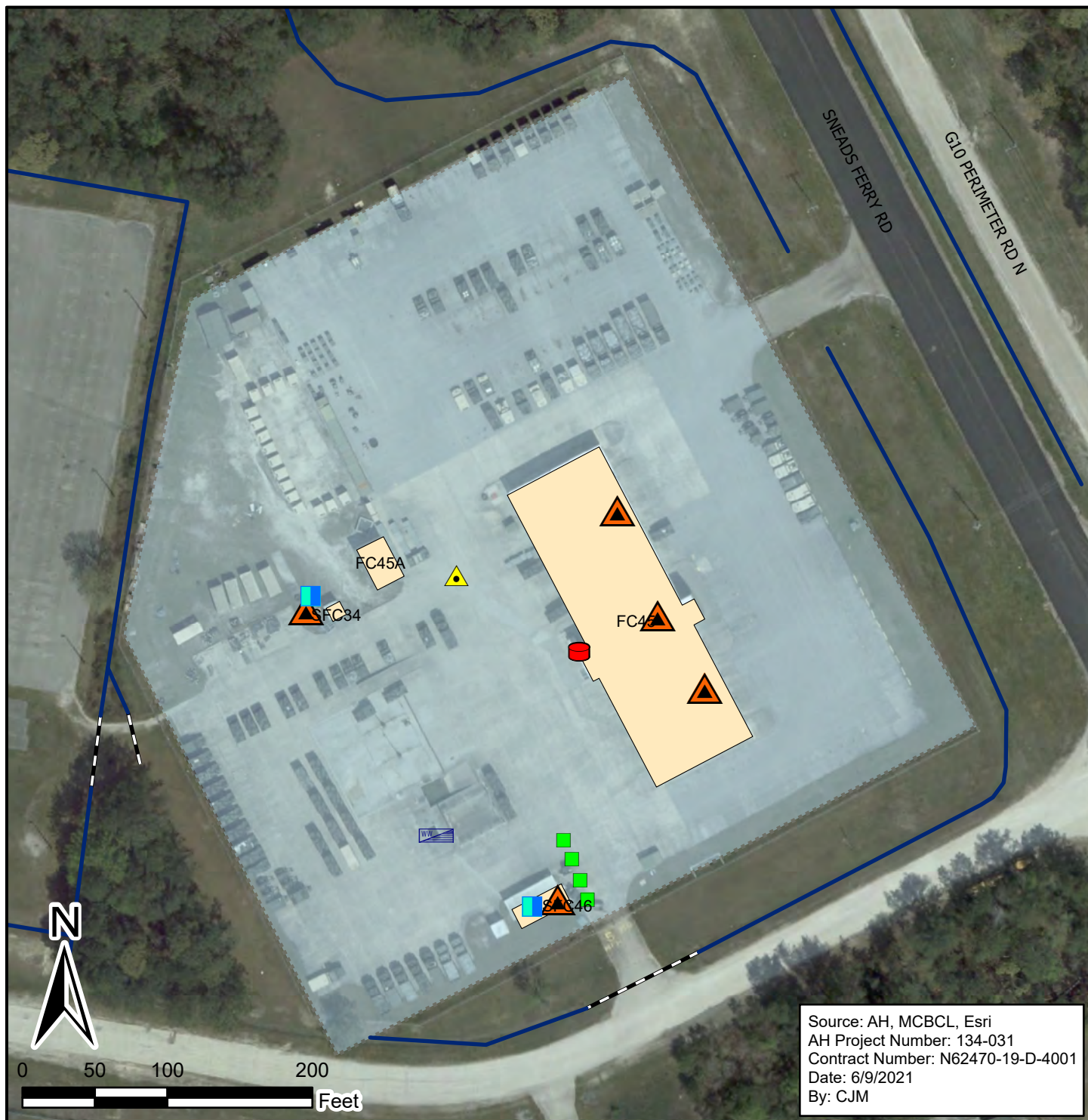


SWPPP Site Maps - Bldg. FC436

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 148



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

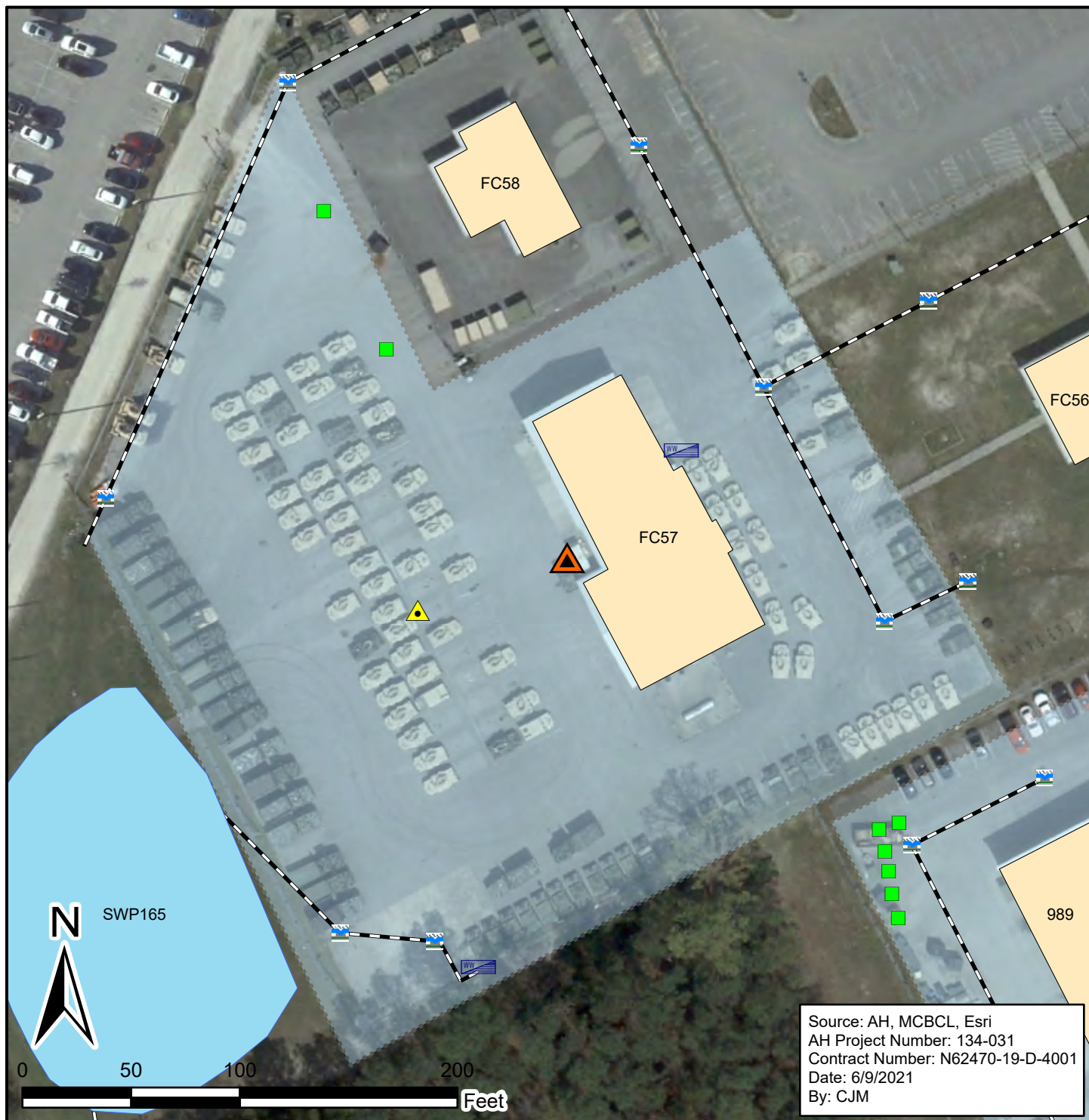


SWPPP Site Maps - Bldg. FC45

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 149



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. FC57
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 150



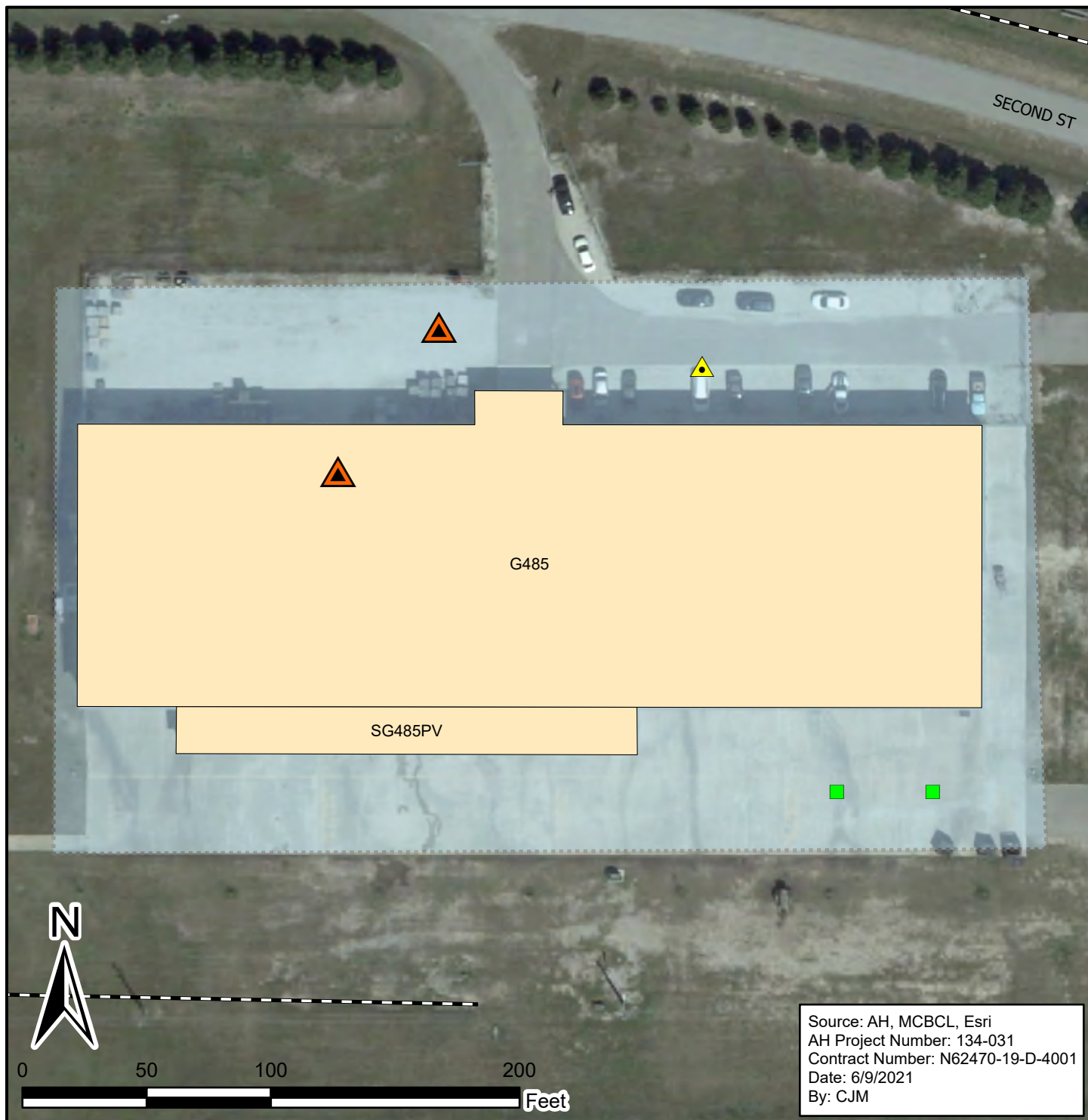
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. G484
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 151



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

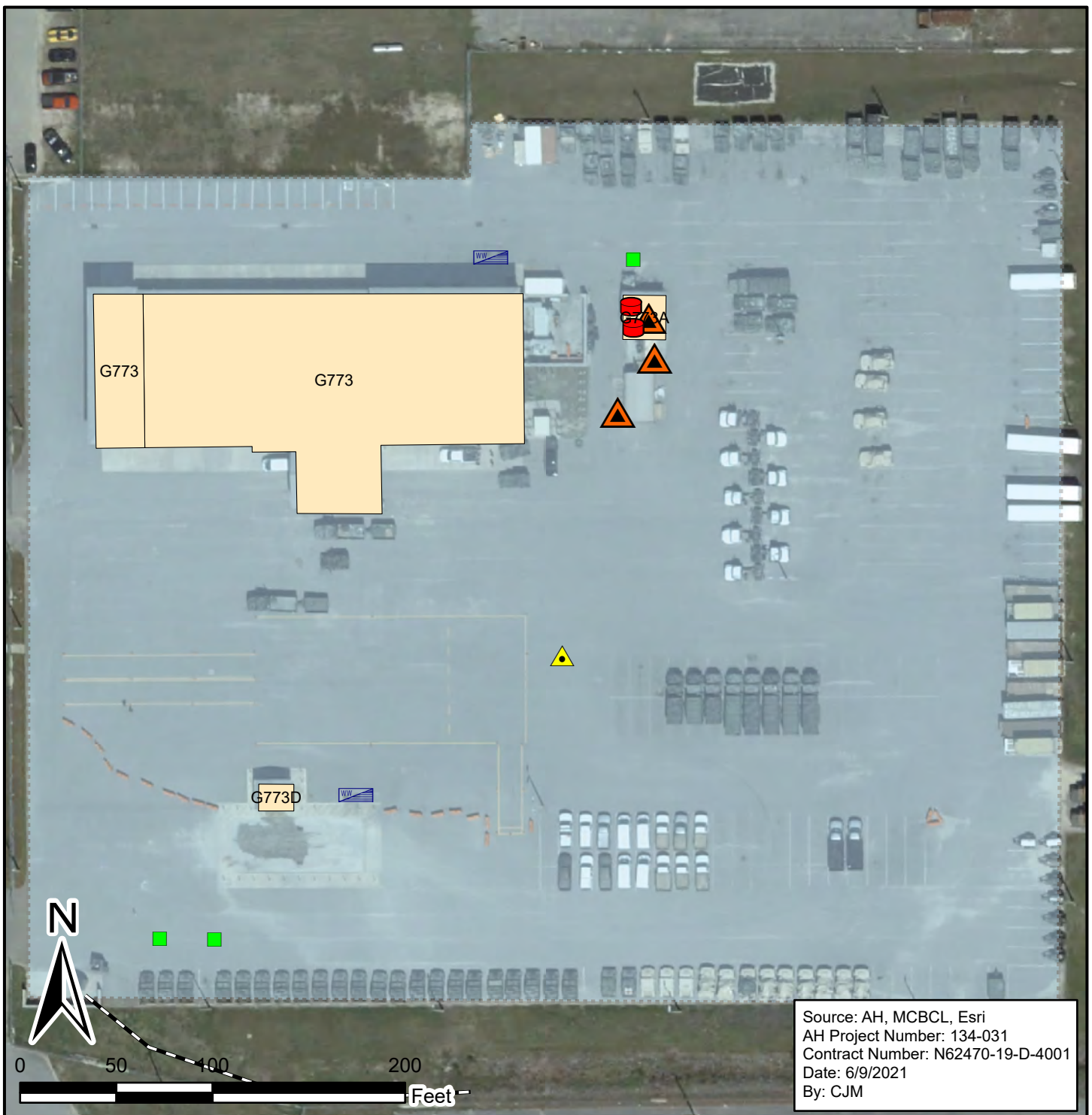


SWPPP Site Maps - Bldg. G485

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 152



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. G773
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 153



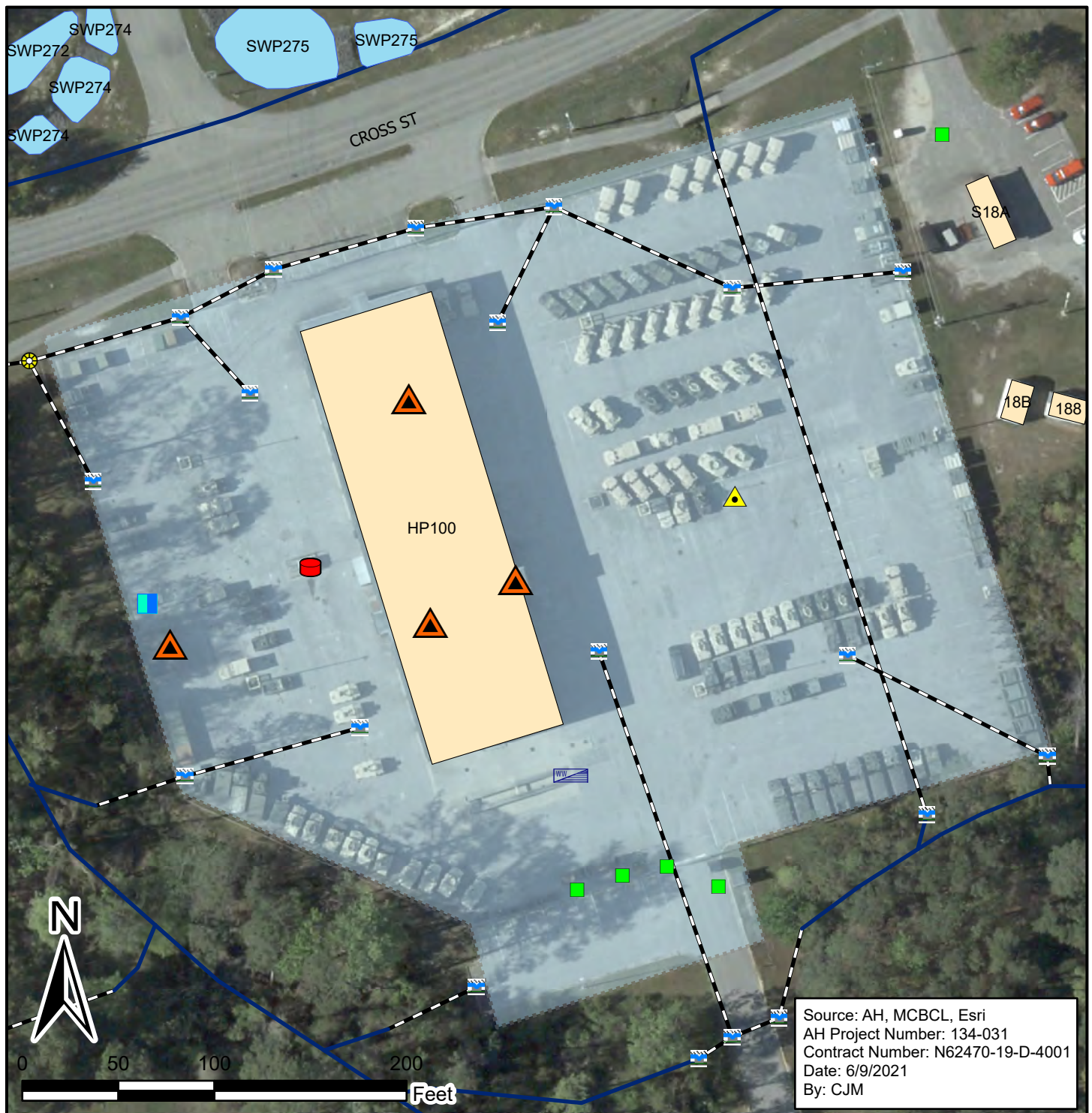
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. G865
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 154



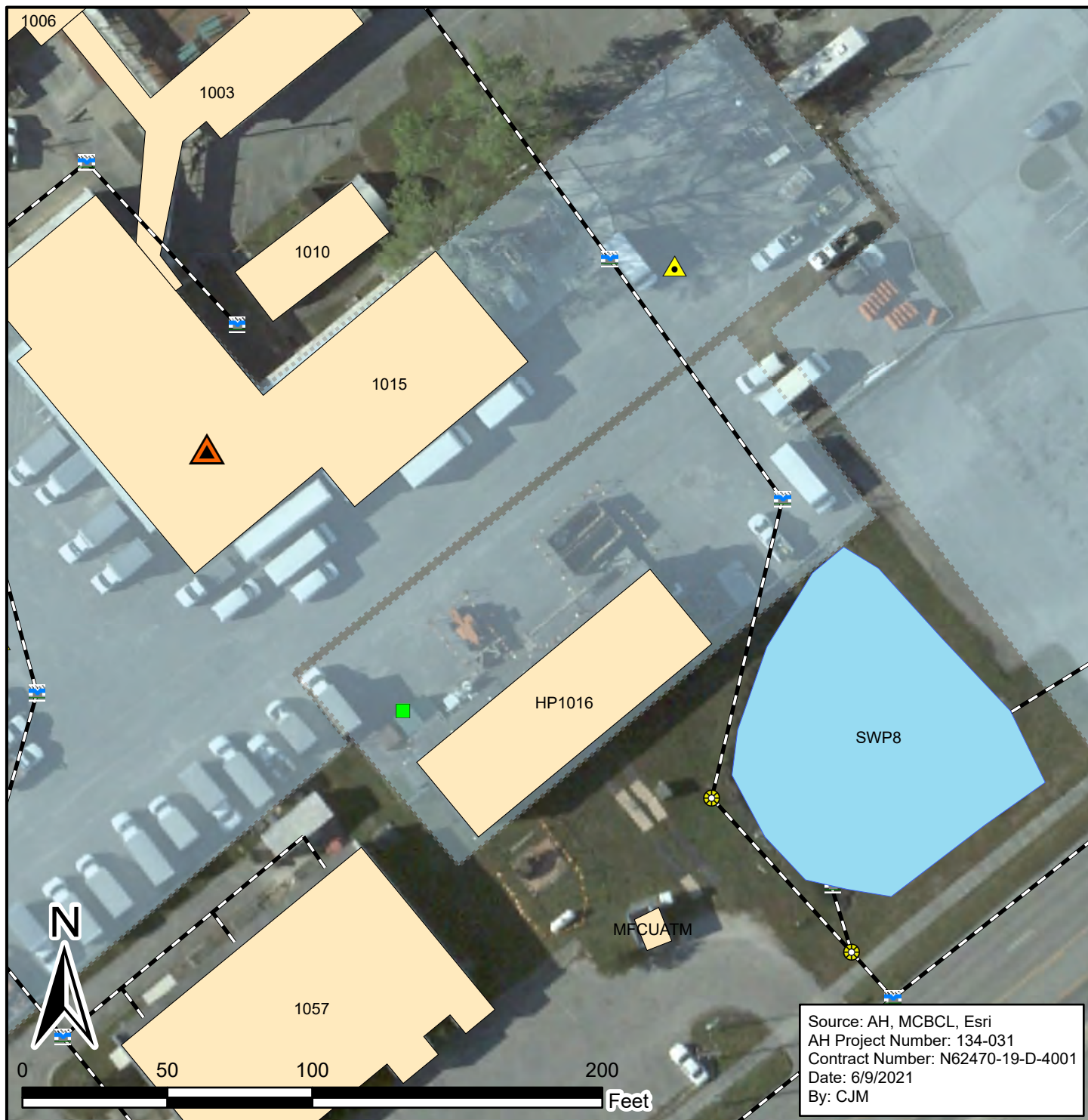
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. HP100
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 155



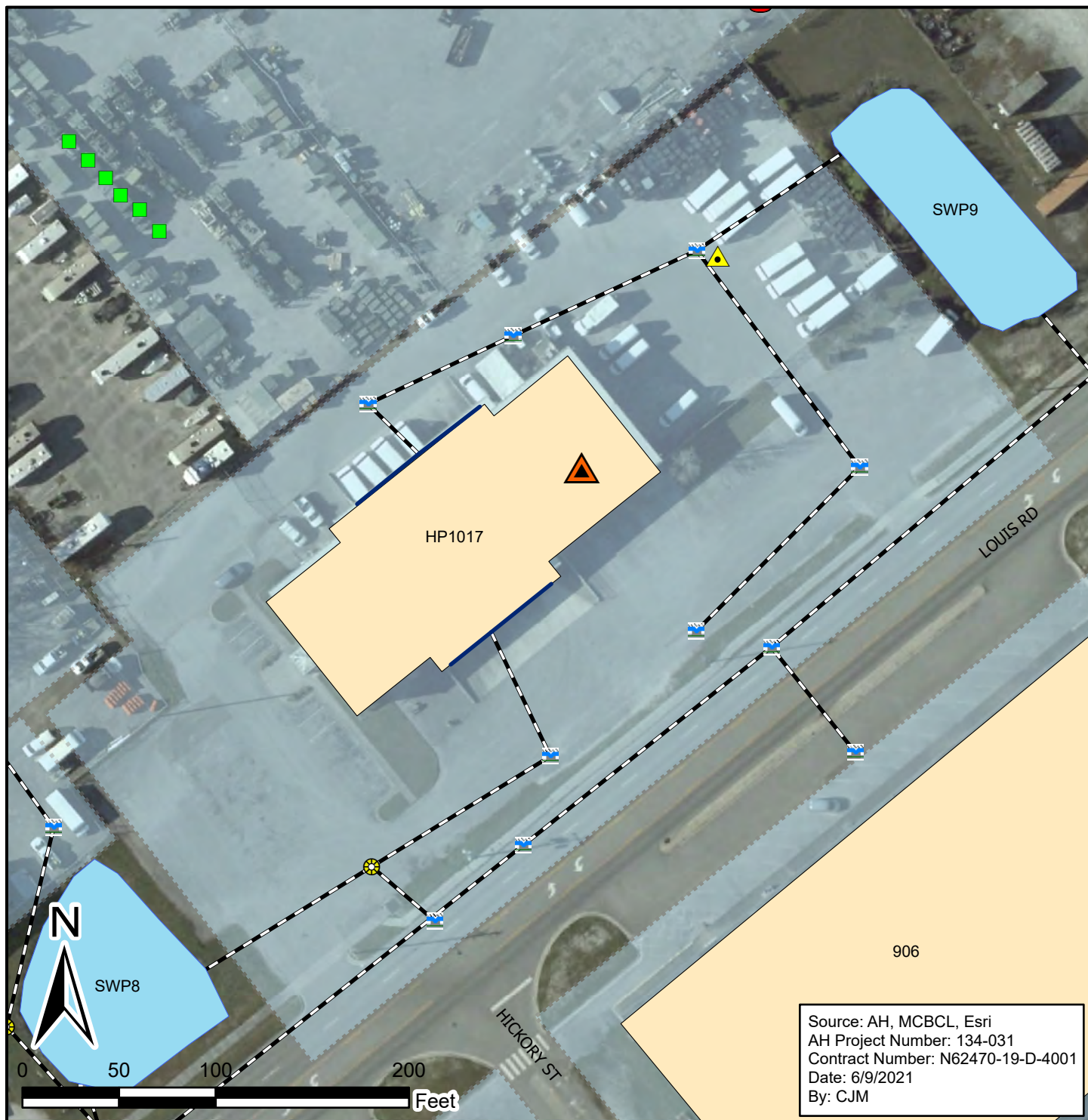
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. HP1016
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 156



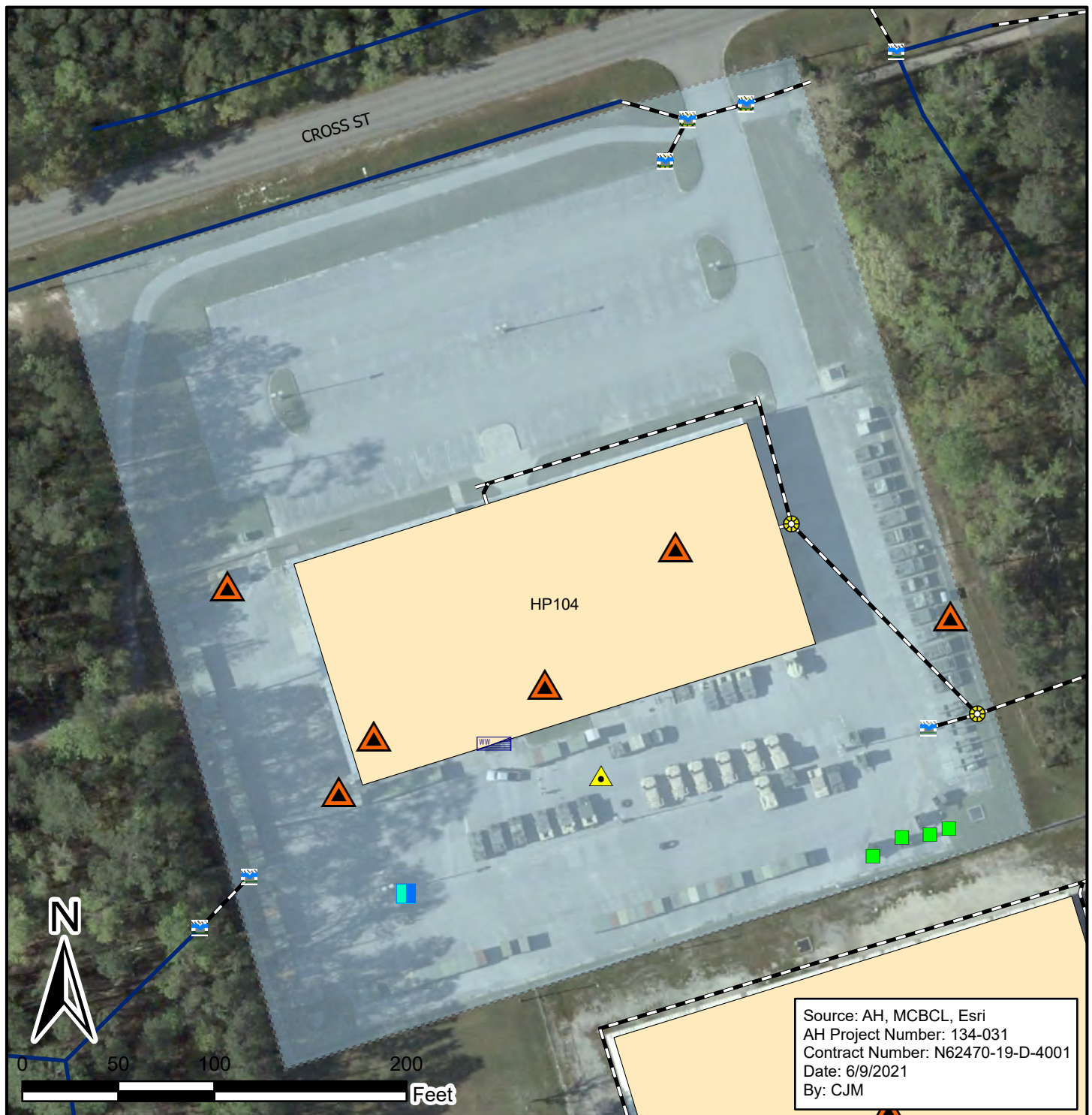
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. HP1017
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 157



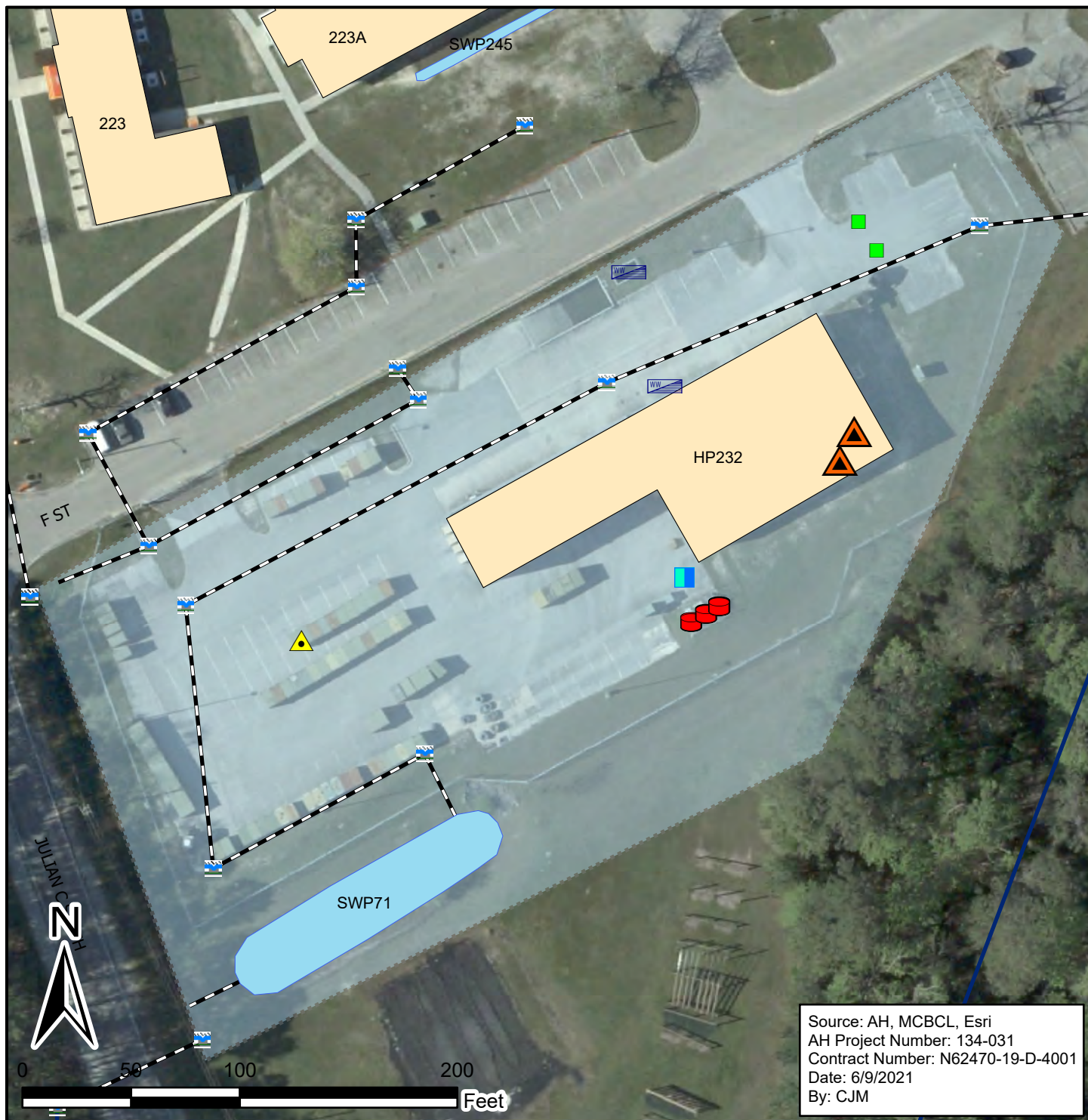
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. HP104
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 158



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

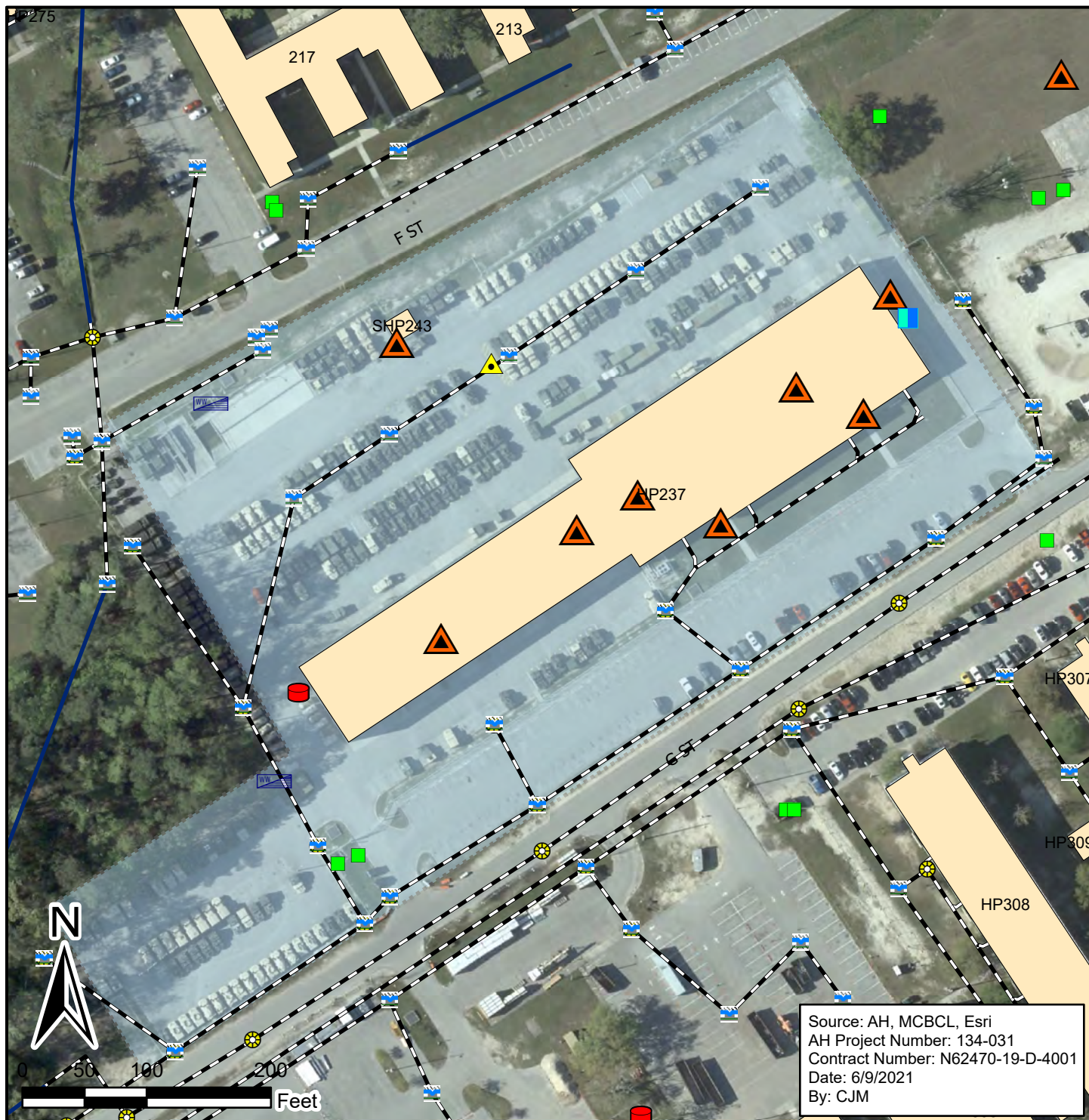


SWPPP Site Maps - Bldg. HP232

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 159



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. HP237
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 160

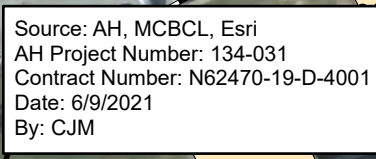
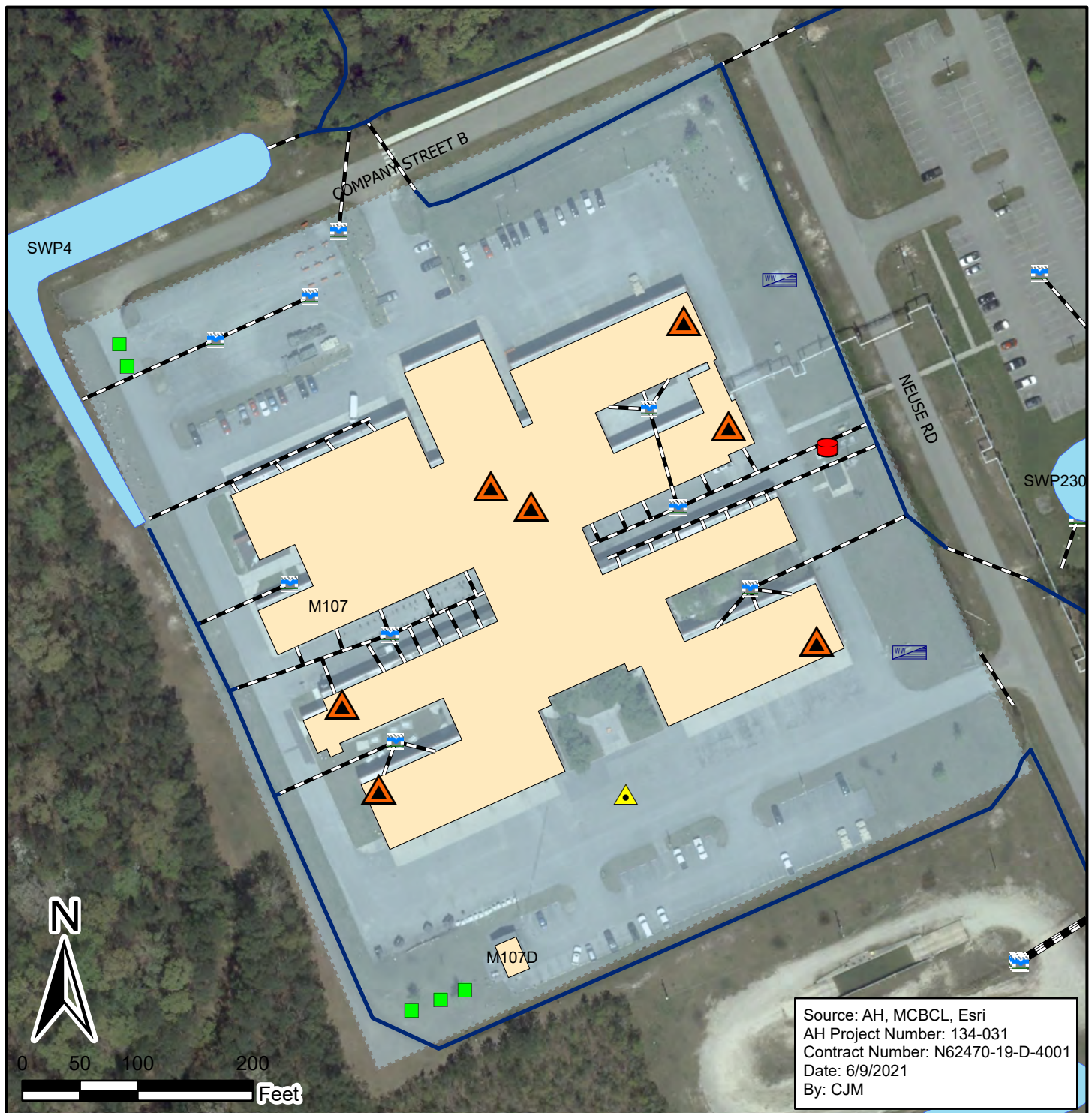


Figure
J - 161



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

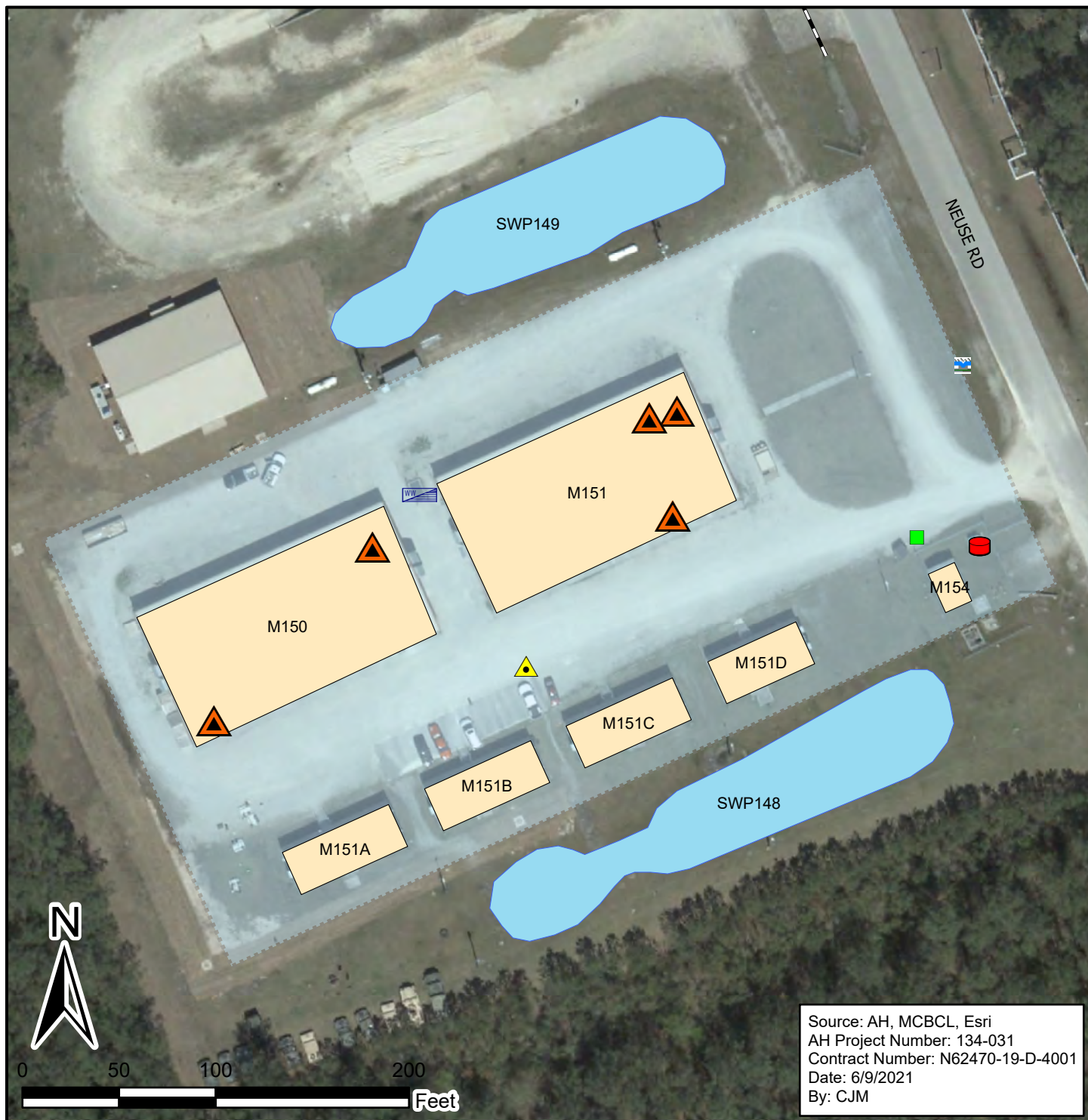


SWPPP Site Maps - Bldg. M107

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 162



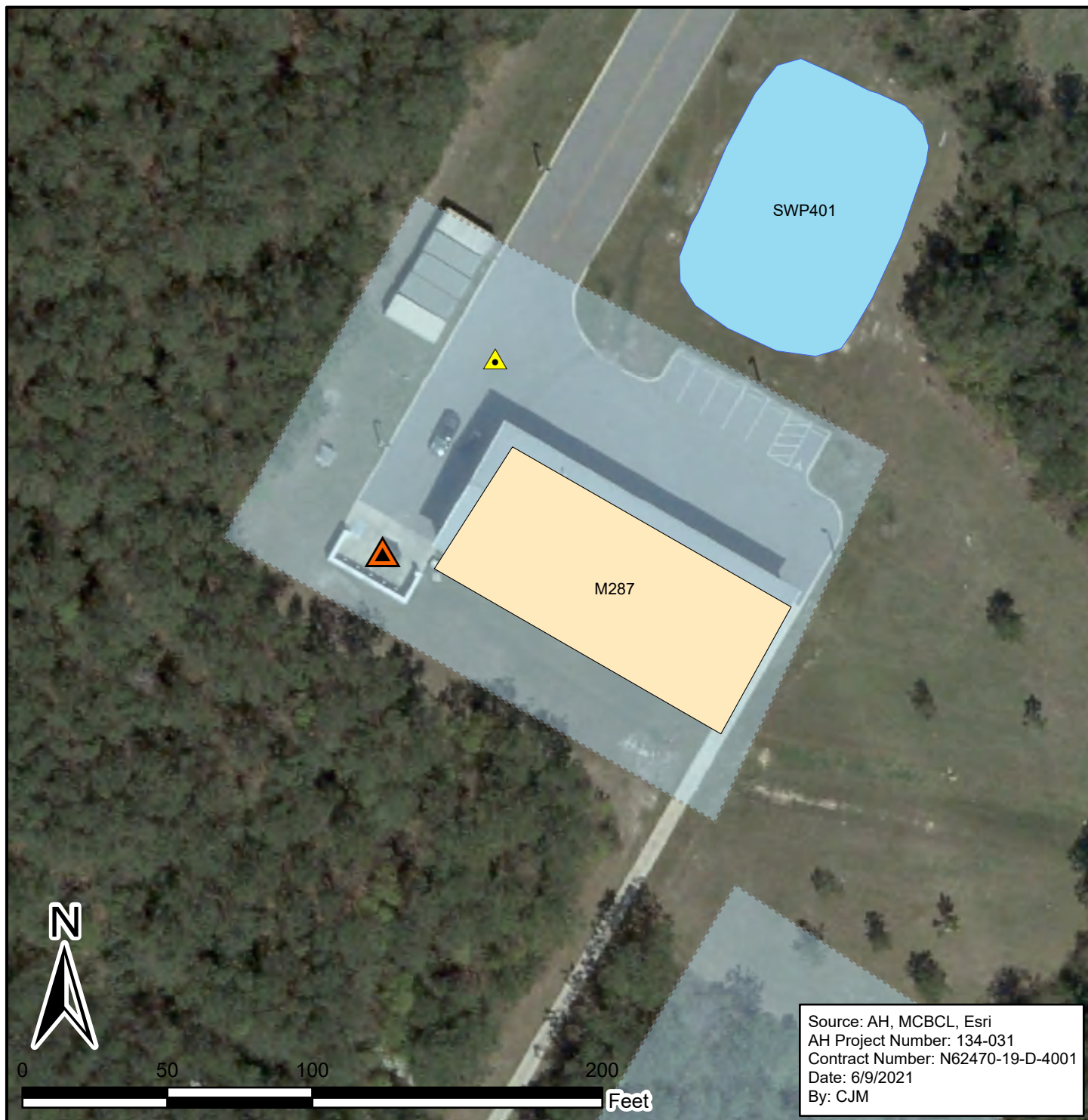
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. M150
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 163



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

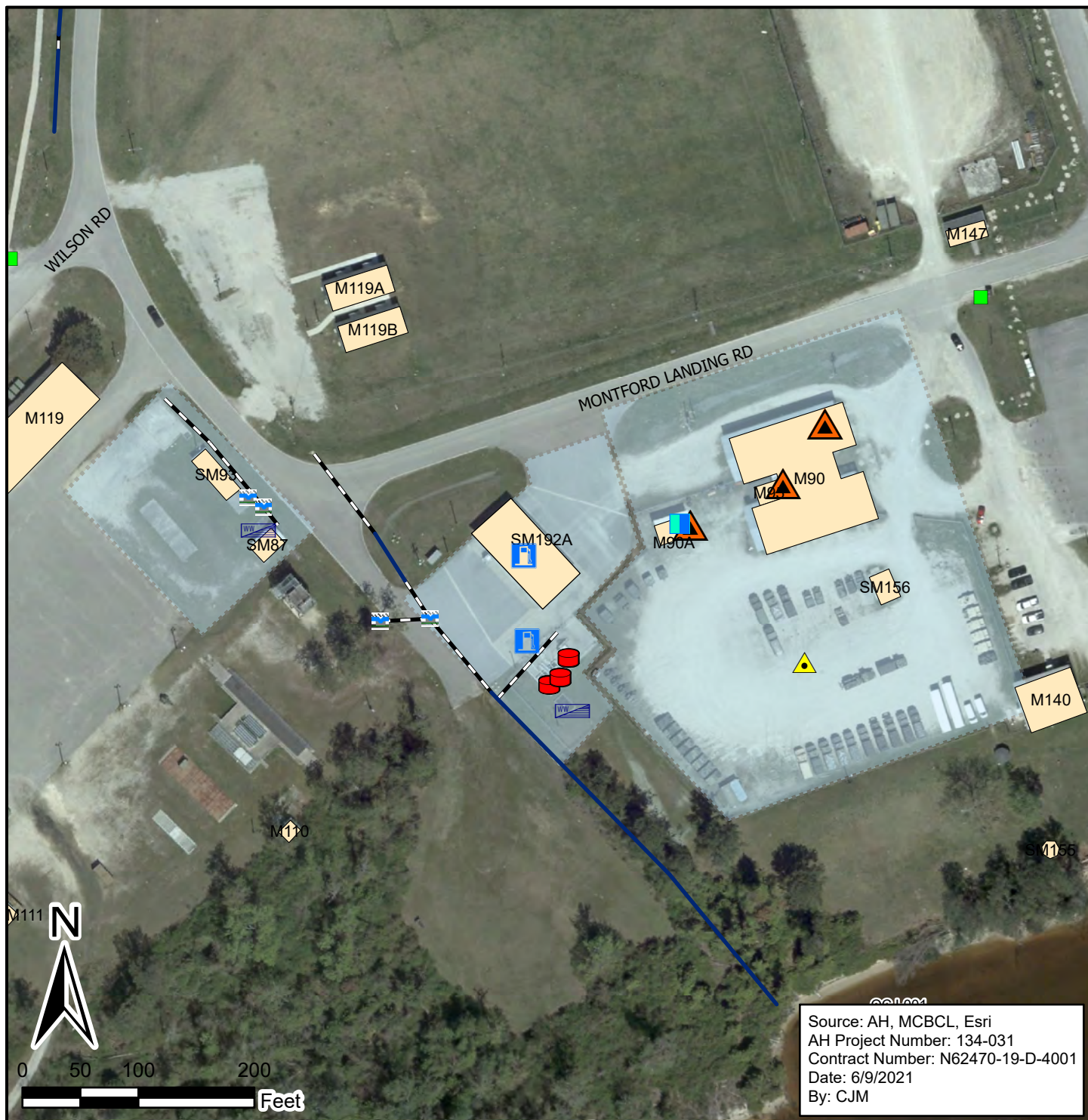


SWPPP Site Maps - Bldg. M287

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 164



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. M90

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 165



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. M__
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 166



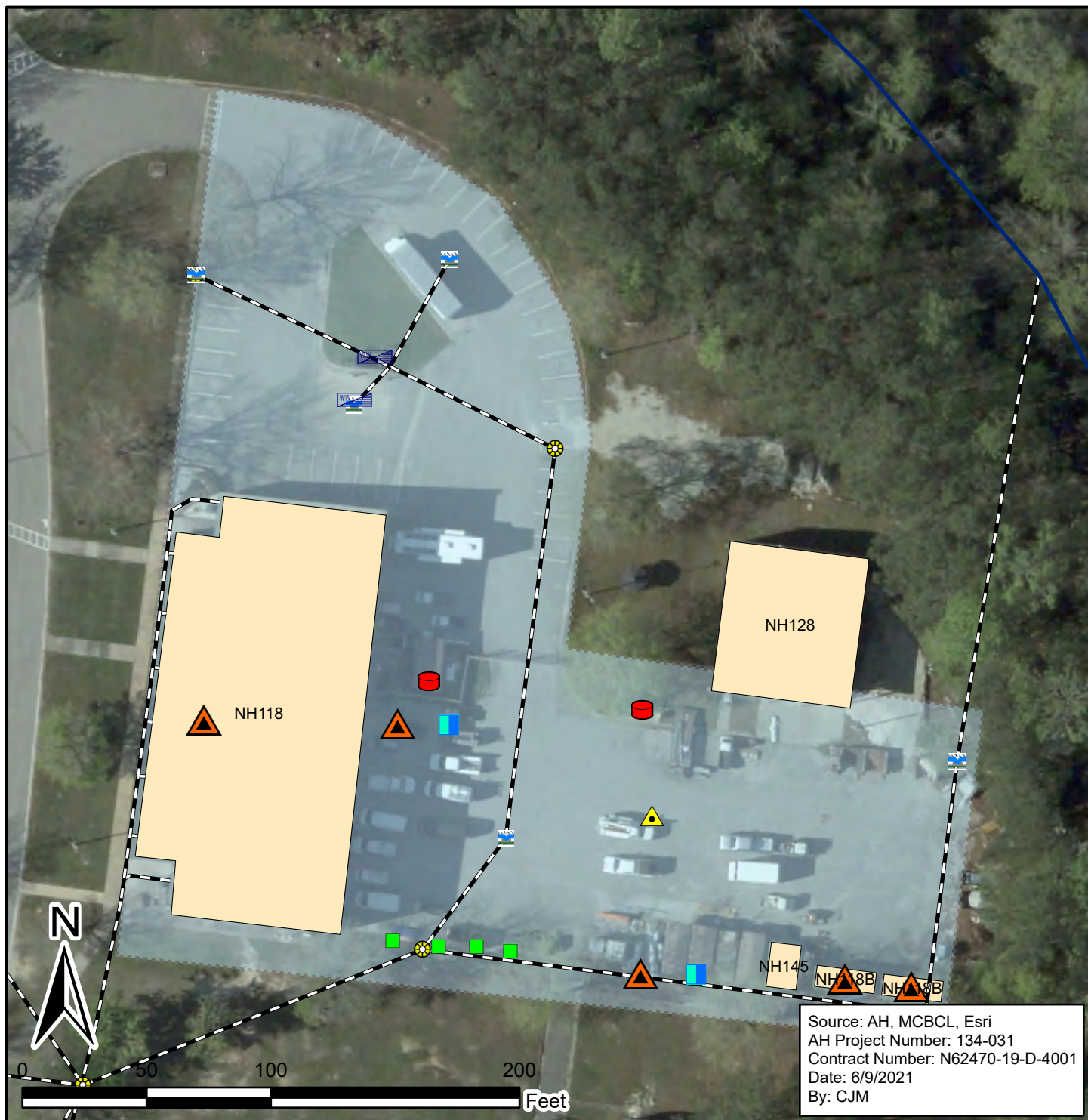
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. NH100
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 167



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. NH118

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 168



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. RR121
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 169



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

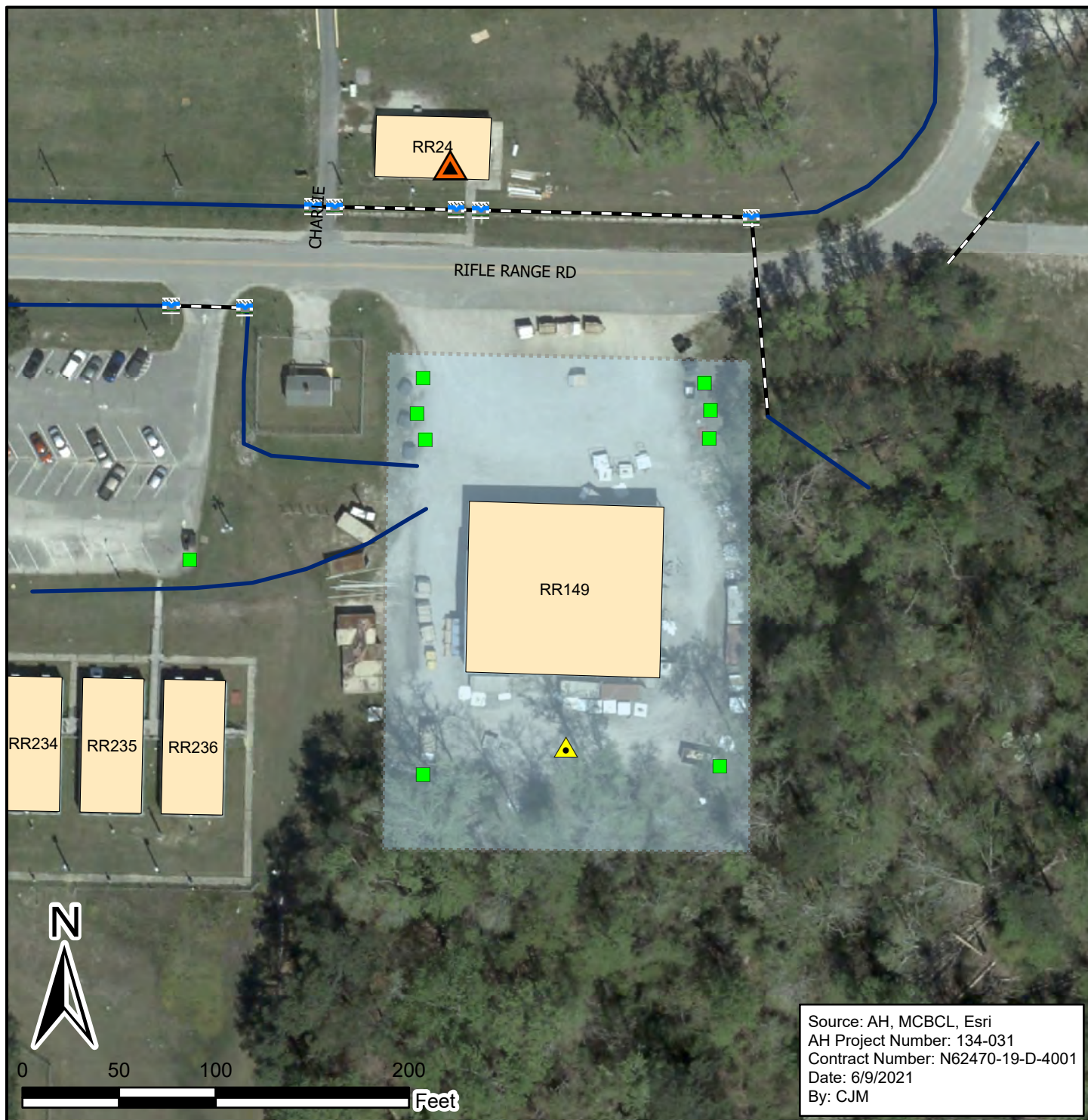


SWPPP Site Maps - Bldg. RR13

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 170



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

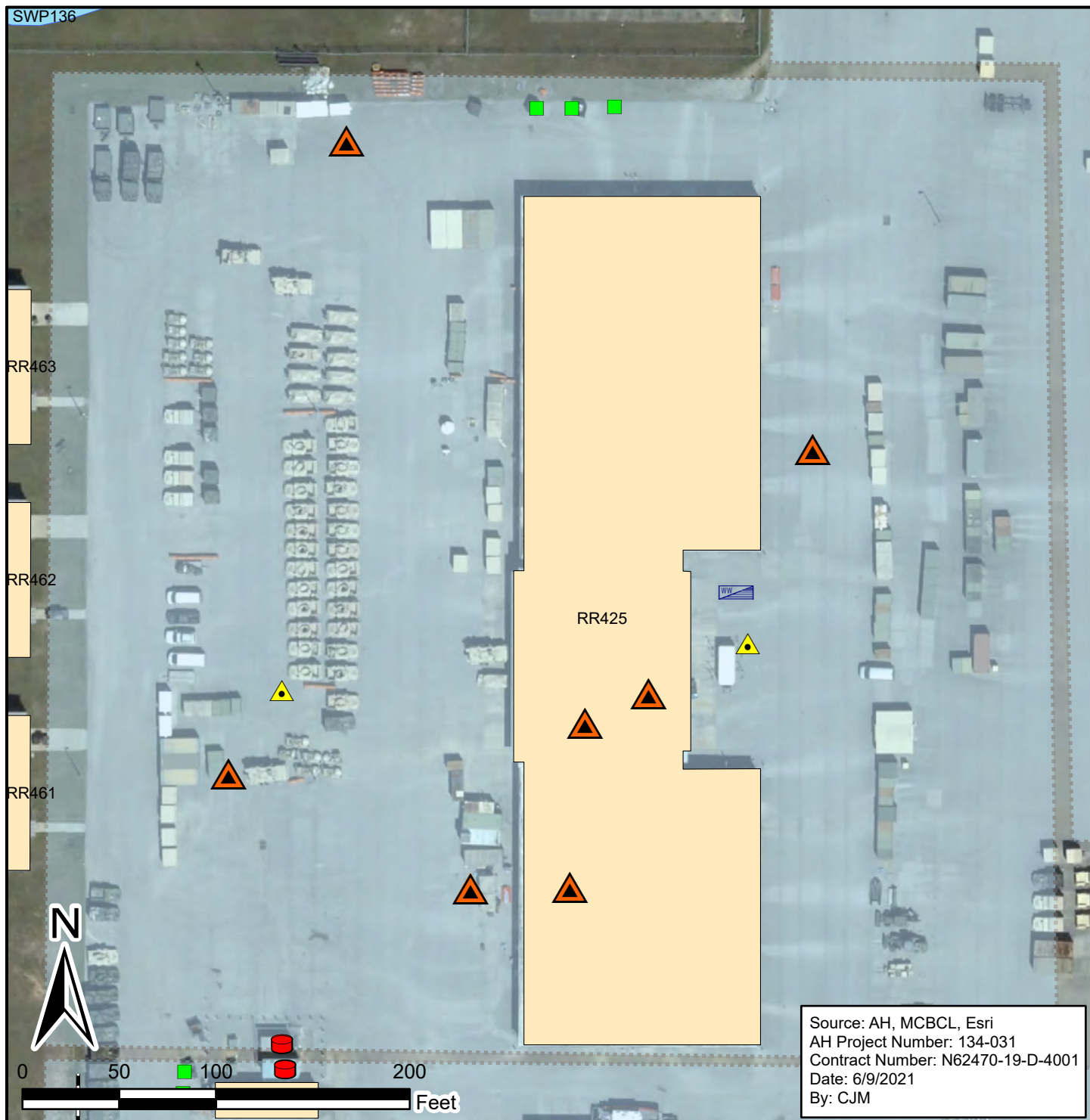


SWPPP Site Maps - Bldg. RR149

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 171



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

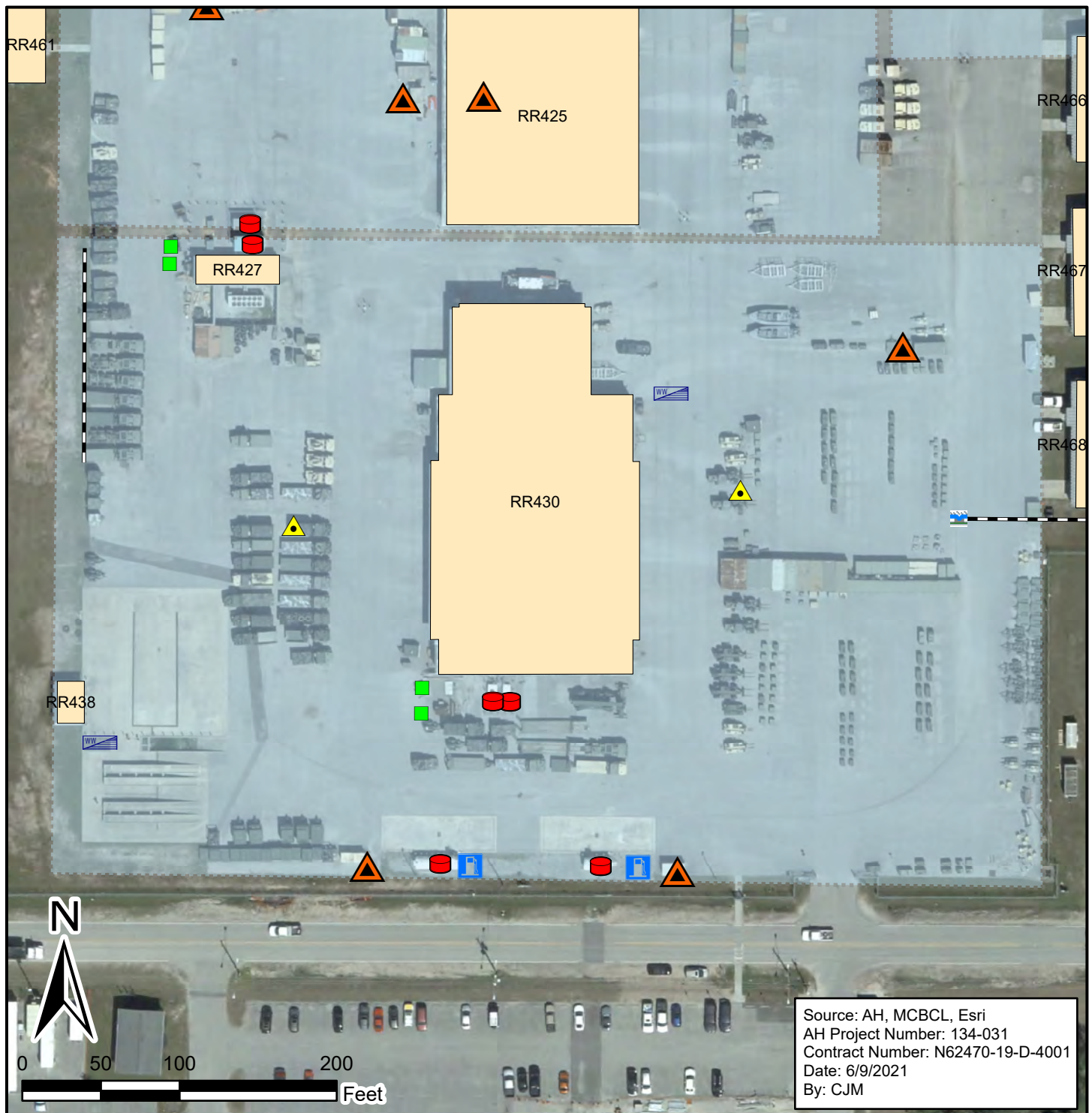


SWPPP Site Maps - Bldg. RR425

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 172



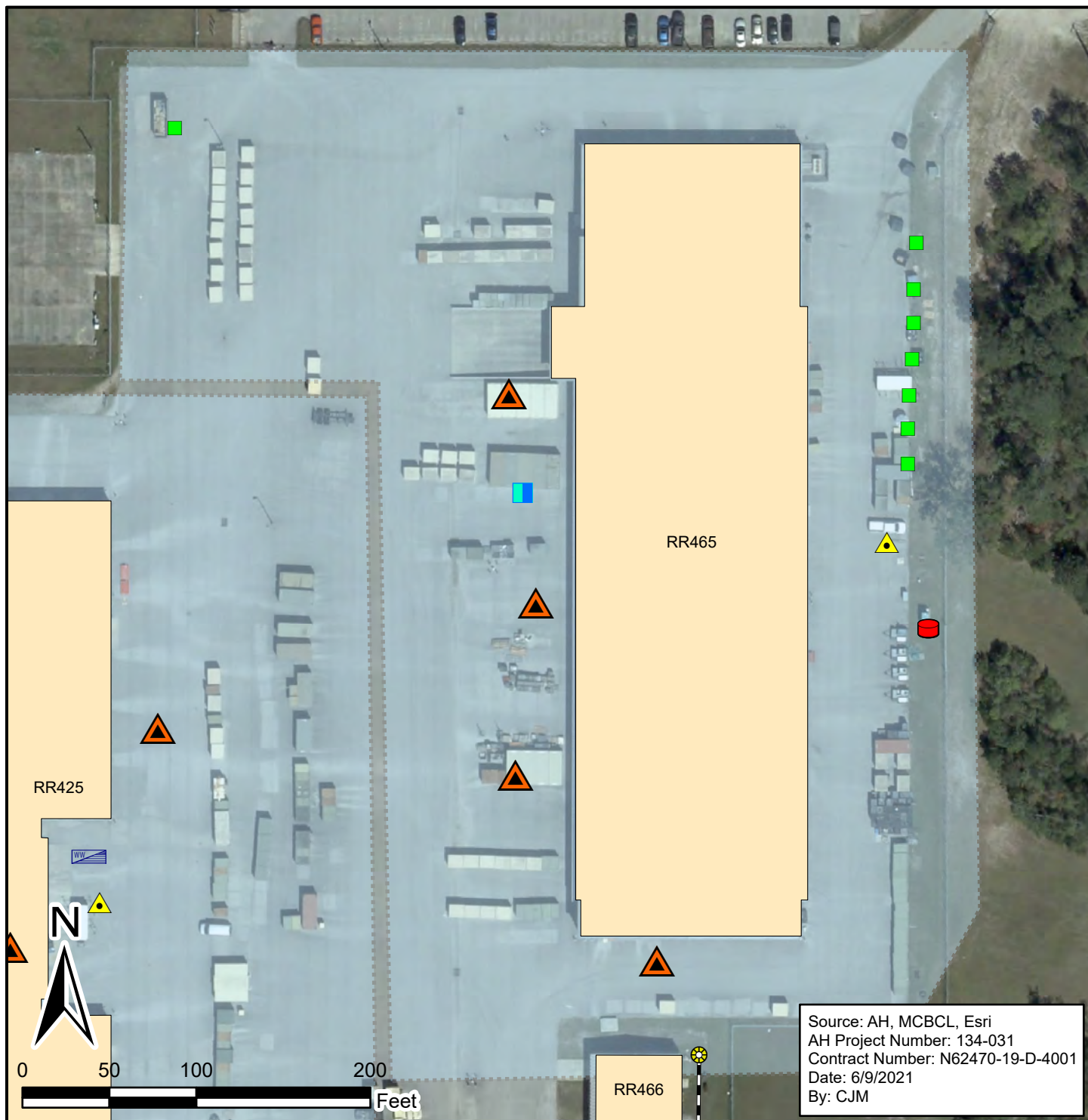
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. RR430
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 173



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

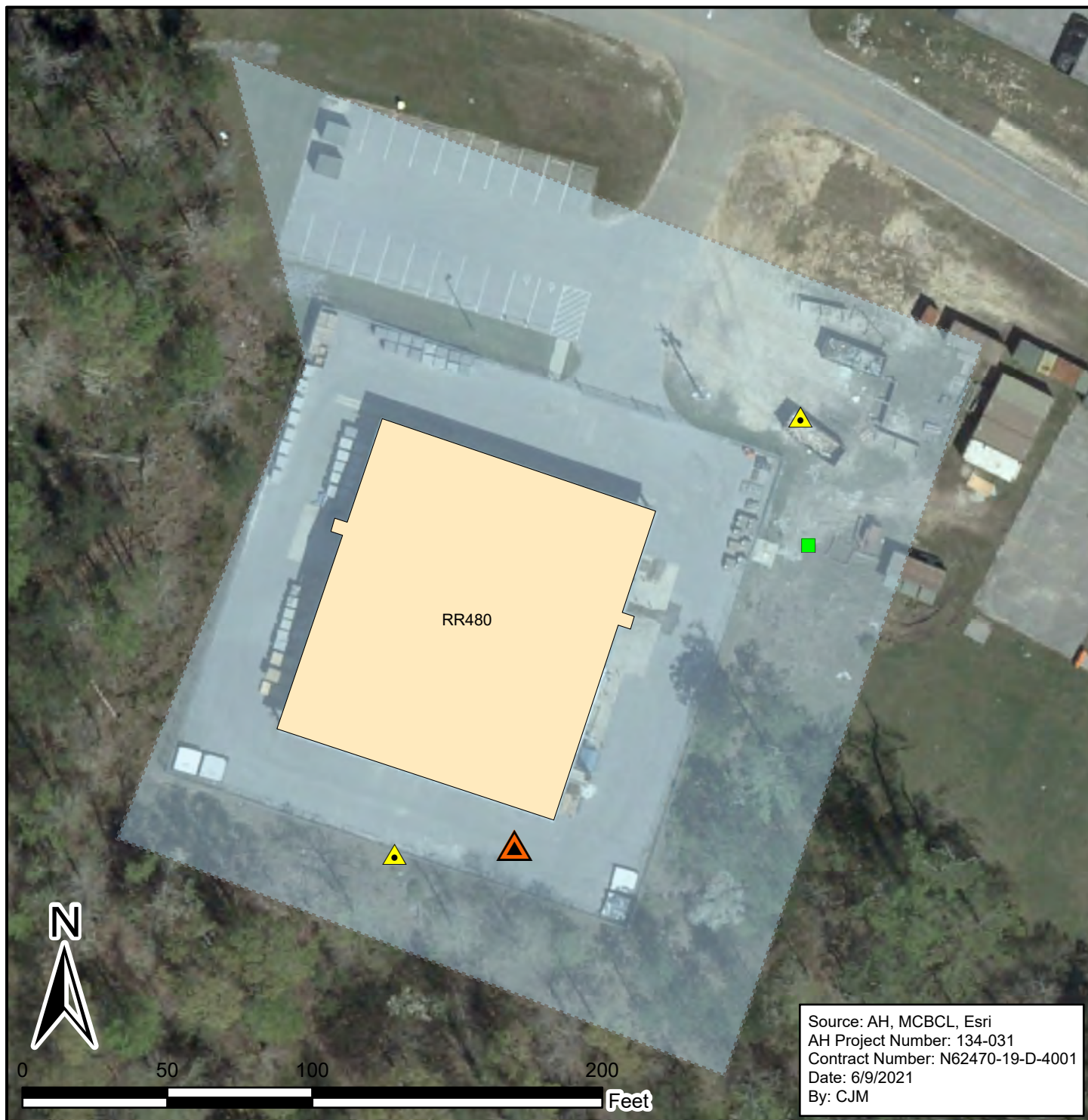


SWPPP Site Maps - Bldg. RR465

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 174



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. RR480
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 175



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. SM192A
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 176



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

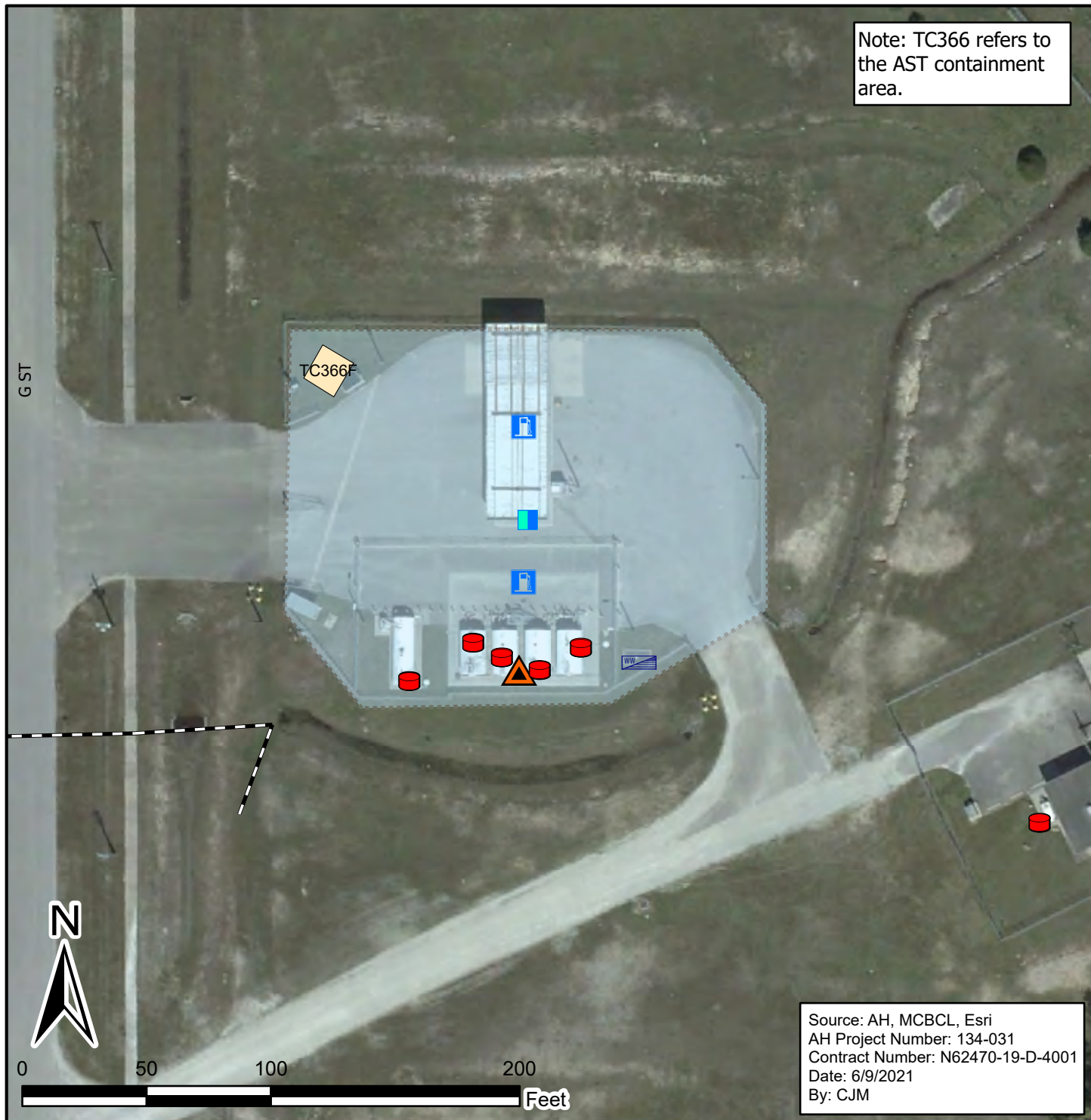


SWPPP Site Maps - Bldg. SR72

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 177



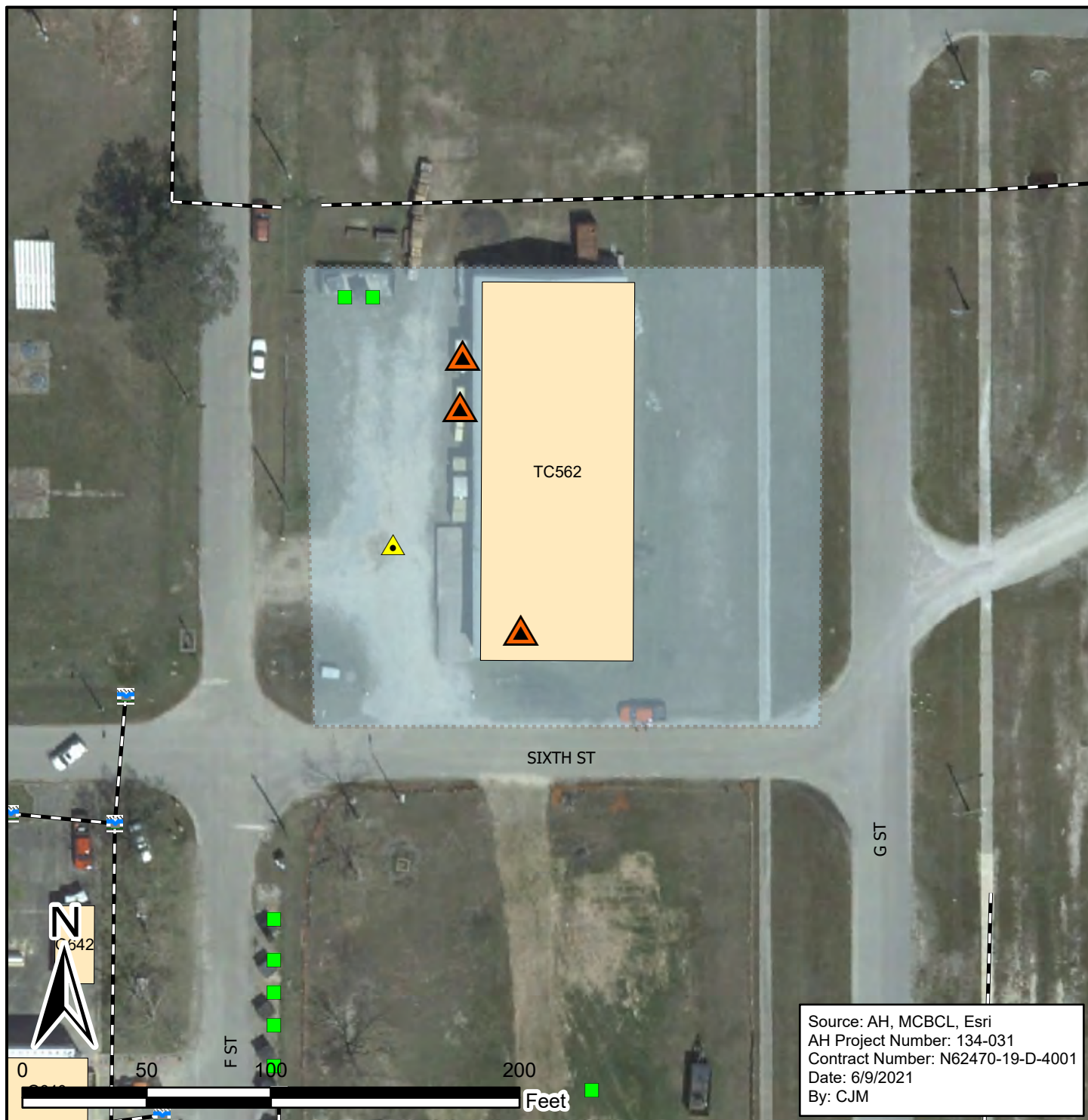
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. TC366
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
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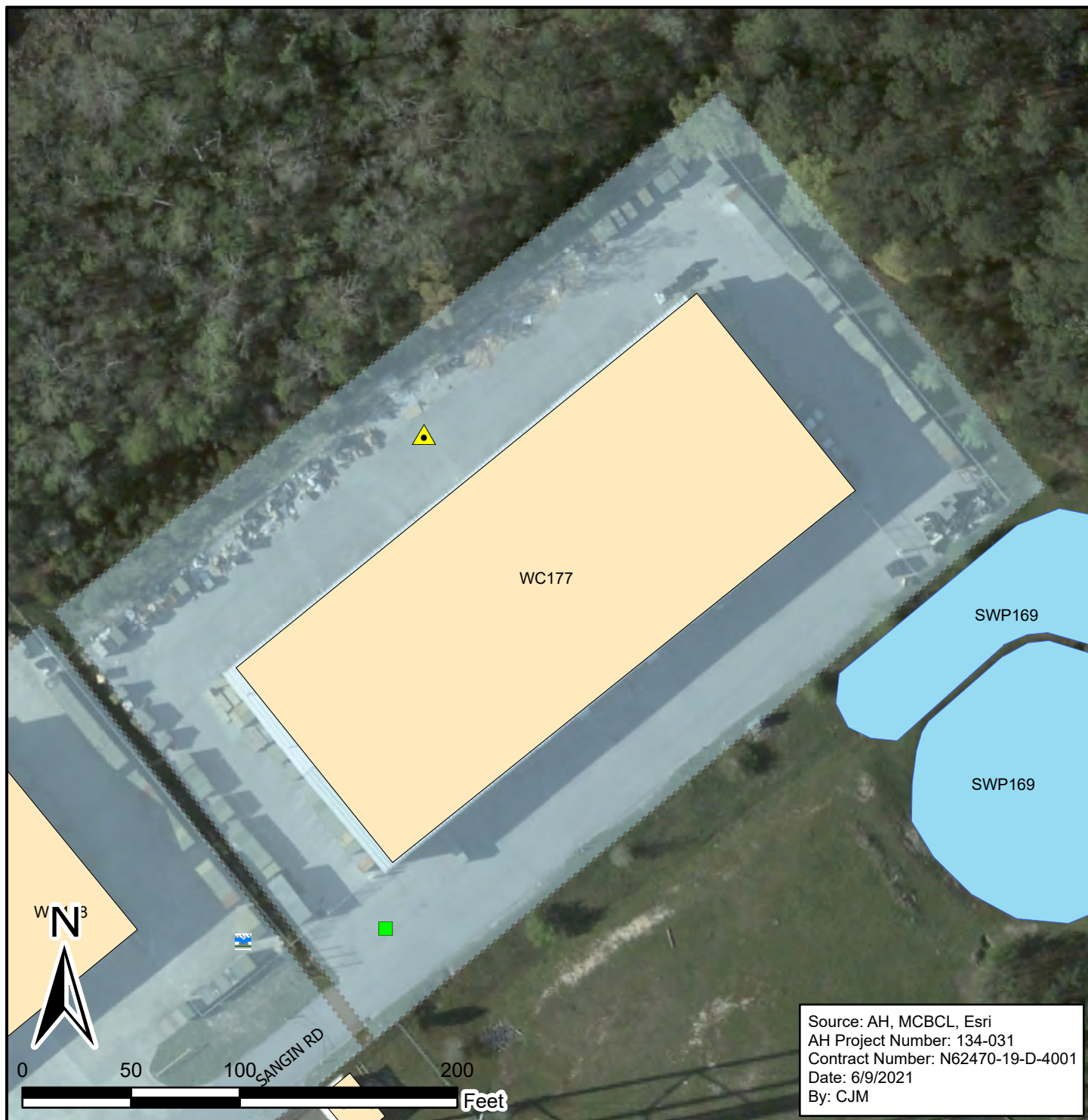
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. TC562
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 179



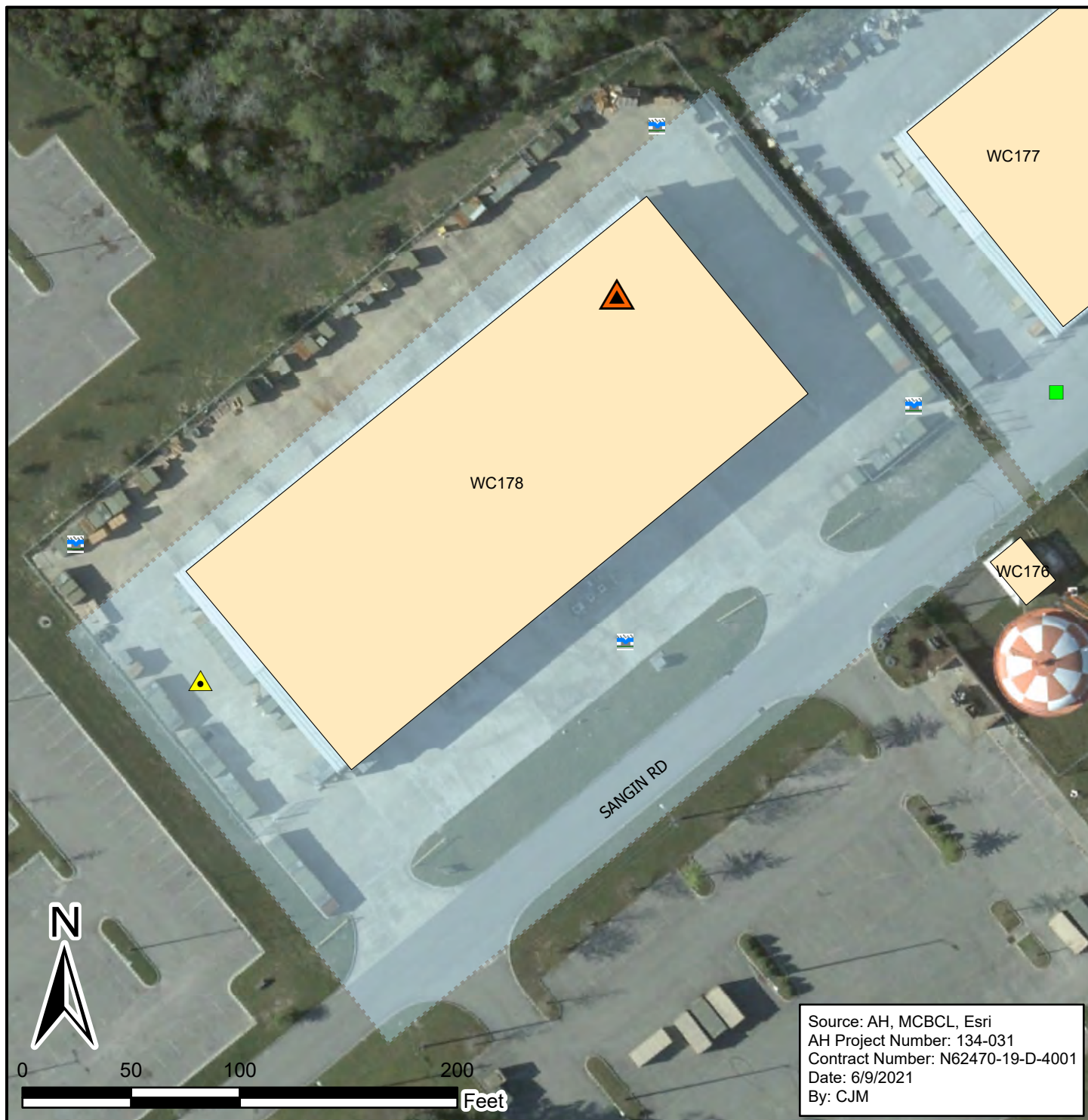
Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. WC177
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 180



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

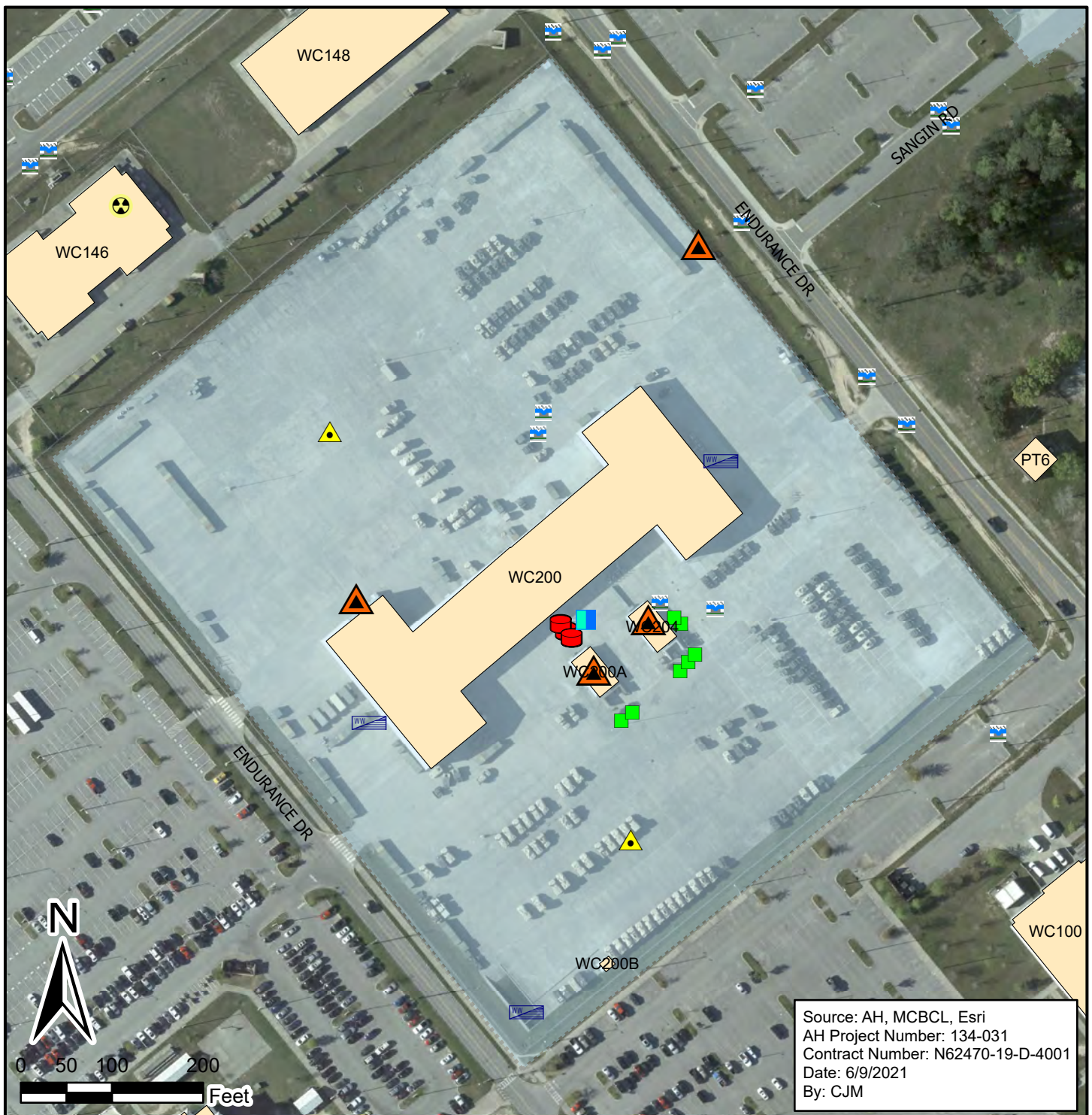


SWPPP Site Maps - Bldg. WC178

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 181



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. WC200
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
 J - 182



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |

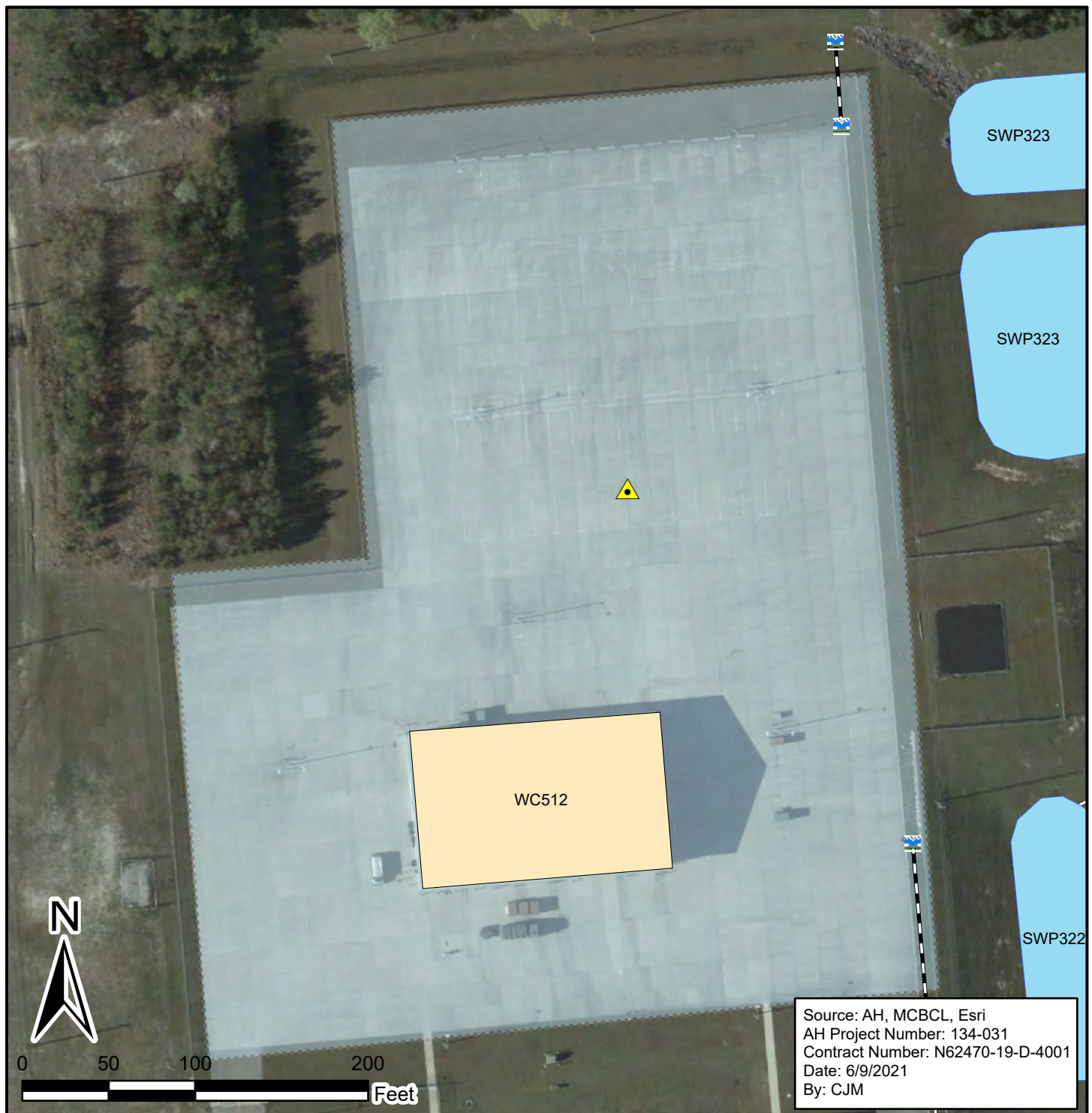


SWPPP Site Maps - Bldg. WC501

Stormwater Pollution Prevention Plan

Marine Corps Base Camp Lejeune, North Carolina

Figure
J - 183



Legend

- | | | |
|--------------------------------|-------------------------------|-------------------|
| Stormwater Outfall | Dumpster | Catch Basin |
| Outdoor AST | Outdoor Liquid Transfer Areas | Storm Manhole |
| HM/HW/POL Management Area | Illicit Discharge | Storm Sewer Pipe |
| HW Satellite Accumulation Area | Oil/Water Separator | Ditch/Swale |
| Outdoor Material Storage Areas | Stormwater BMP | Facility Boundary |
| | Building | Spill Kit |



SWPPP Site Maps - Bldg. WC512
Stormwater Pollution Prevention Plan
 Marine Corps Base Camp Lejeune, North Carolina

Figure
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