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NAS CECIL FIELD, FL
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CONSTRUCTION COMPLETION REPORT FOR HIGH SPEED REFUELERS REMOVAL AND
PIPELINE PIGGING WITH TRANSMITTAL LETTER NAS CECIL FIELD FL
10/4/2006
CH2MHILL CONSTRUCTORS INC



TRANSMITTAL

To: Mark Davidson
NAVFAC SOUTHEAST
P.O. Box 190010
North Charleston, SC 29419-9010

From: Amy Wolff
CH2M HILL Constructors, Inc.
115 Perimeter Center Pl., N.E.
Suite 700
Atlanta, GA 30346

Date: October 4, 2006

Contract: N62467-98-D-0995

CTO: Contract Task Order No. 0057
Former Naval Air Station (NAS) Cecil Field
Jacksonville, Florida

Re: Construction Completion Report for the High Speed Refuelers Removal and Pipeline Pigging

Quantity	Description
1	Construction Completion Report for the High Speed Refuelers Removal and Pipeline Pigging Please review and provide comments or approval on this submittal

If material received is not as listed, please notify us at once

CC: Doyle Brittain/EPA
David Grabka/FDEP
Mark Speranza/TtNUS
Larry Blackburn/ROICC (CD Only)
Mike Halil/JAX
Project File No. 263231

Construction Completion Report High Speed Refuelers Removal and Pipeline Pigging

Former Naval Air Station Cecil Field
Jacksonville, Florida

Revision No. 00

Contract No. N62467-98-D-0995
Contract Task Order No. 0057

Submitted to:



U.S. Naval Facilities
Engineering Command
Southeast

Prepared by:



115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

October 2006

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High Speed Refuelers Removal and Pipeline Pigging

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115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

October 2006

Prepared/Approved By:

Handwritten signature of Michael Halil in black ink.

Michael Halil, Project Manager

October 4, 2006

Date

Approved By:

Handwritten signature of Scott Smith in black ink.

Scott Smith, Program Manager

October 4, 2006

Date

Client Acceptance:

U.S. Navy Responsible Authority

Date



CERTIFICATE OF COMPLETION

CH2M HILL Constructors, Inc., attests that, to the best of its knowledge and belief, High Speed Refuelers Removal and Pipeline Pigging at former Naval Air Station Cecil Field, Jacksonville, Florida, delivered under Contract No. N62467-98-D-0995, Contract Task Order No. 0057, has been completed, inspected, and tested, and is in compliance with the contract.

Greg Ramey/Jeffery Marks
Project Quality Control Managers

October 3, 2006
Date

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Acronyms

CH2M HILL	CH2M HILL Constructors, Inc.
CTO	Contract Task Order
E-W	East-West
ERS	Environmental Remediation Services
HSRs	High Speed Refuelers
JAA	Jacksonville Airport Authority
JP-5	Jet Propellant-5
LEL	lower explosive limit
MPC	Murphy Pipeline Company
N-S	North-South
NAS	Naval Air Station
NAVFAC SE	Naval Facilities Engineering Command Southeast
PWC	Public Works Center
QC	Quality Control
T&D	Transportation and Disposal

1.0 Introduction

CH2M HILL Constructors, Inc. (CH2M HILL) was contracted by the Department of the Navy, Naval Facilities Engineering Command Southeast (NAVFAC SE), to prepare this Construction Completion Report for work performed at the north/south (N-S) and east/west (E-W) High Speed Refuelers (HSRs) located at former Naval Air Station (NAS) Cecil Field, Jacksonville, Florida. This work was performed under Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0057 and in accordance with the management approach outlined in the CH2M HILL Contract Management Plan (CH2M HILL, 1998a), the NAS Cecil Field Basewide Work Plan, Revision No. 1 (CH2M HILL, 1998b), and the CTO No. 0057 Work Plan Addendum No. 22 (CH2M HILL, 2005a).

The objective of this report is to provide documentation of the construction activities associated with the removal and pipeline pigging of the N-S and E-W HSRs at former NAS Cecil Field, Jacksonville, Florida.

1.1 Site Description

The underground jet propellant-5 (JP-5) pipeline runs parallel and along the eastern side of the former "A" Avenue (now Aviation Avenue). The main pipeline was installed during the 1950s and was used to convey fuel from the North Tank Fuel Farm to the South Tank Fuel Farm, the Jet Engine Test Cell, and Day Tanks 1 and 2 at NAS Cecil Field. Additional pipelines were later installed to transport fuel from the Day Tanks to the HSRs (Aircraft Fueling Stations) located on both the N-S and E-W runways. Various sections of the pipeline were removed during the North Tank Fuel Farm, Day Tank 1, and Day Tank 2 removals leaving gaps in the pipeline system. The remainder of the pipeline, including the N-S and E-W HSRs, had been left in place. Site surveys showing the layouts of the N-S and E-W HSRs are provided in Appendix B.

A previous scope of work associated with pigging the JP-5 pipeline was completed by CH2M HILL under CTO No. 0021 and is documented in the Construction Completion Report for JP-5 Pipeline Pigging (CH2M HILL, 2004). As part of the completed scope of work, the aboveground and underground piping sections of 8-, 6-, and 4-inch diameter fuel pipelines on the N-S and E-W HSRs were either pigged or evacuated by vacuum truck, and the 14-inch and 4-inch diameter fuel pipelines that start at the former Day Tank 1 vault and end at the N-S HSRs and the 14-inch and 4-inch diameter fuel pipelines that start at the former Day Tank 2 vault and end at the E-W HSRs were pigged.

The Jacksonville Airport Authority (JAA) hired a contractor to dismantle and remove the aboveground piping and equipment associated with the N-S and E-W HSRs in October 2005. During the contractor's initial site work to cut into the piping and disassemble the fuel pumps, residual JP-5 fuel was encountered at a low point in the aboveground piping and in the sump of the fuel pumps. The fuel pump sumps contained approximately 5 gallons each of JP-5 fuel, and the aboveground piping showed minimal drips of fuel. Because the JAA

contractor was not being equipped to handle the residual JP-5 fuel, site work was terminated until the JP-5 fuel could be removed.

1.2 Project Scope and Objectives

CH2M HILL was authorized by NAVFAC SE on November 7, 2005, to complete the scope of work associated with the removal and pipeline pigging of the N-S and E-W HSRs at the former NAS Cecil Field. The scope of work outlined in the CTO No. 0057 Work Plan Addendum No. 22 (CH2M HILL, 2005a) included the following:

- Mobilization and site preparation
- Identification and avoidance of all aboveground and underground utilities or other manmade structures
- Disconnecting and safely cold-cutting all aboveground piping at the HSRs to drain and remove any residual JP-5 fuel, as well as to facilitate HSR dismantling by others
- Inspecting underground piping at the HSRs and removing any residual JP-5 fuel. If pipeline pigging becomes necessary to remove residual JP-5 fuel from the underground piping, the following tasks will be completed:
 - Excavating the area around the underground piping where the pig launcher will be installed
 - Pigging and rendering fuel lines gas free
 - Mechanically capping the underground piping once made gas free
 - Site restoration
- Containerization, characterization, transportation, and disposal (T&D) of generated or accumulated contaminated materials
- Preparation of a Construction Completion Report

The project objective specified in the CTO No. 0057 Work Plan Addendum No. 22 (CH2M HILL, 2005a) was to remove all residual JP-5 fuel from the aboveground and underground piping at the N-S and E-W HSRs to ensure that no JP-5 fuel is encountered during future construction activities at the site.

2.0 Chronology of Events and Problems Encountered

2.1 Chronology of Events

The chronology of events is listed below in Table 2-1. Details describing the construction activities are provided in Section 3.0 of this report.

TABLE 2-1
Construction Sequence Summary

Event	Date
Initial Site Visit/Meeting with JAA	October 18, 2005
Scoping Site Visit/Pre-construction Photographs Collected	November 9, 2005
Work Plan Addendum No. 22, Revision No. 00 Submitted	November 28, 2005
Runway and Ramp Training/Site Access Coordination	November 28, 2005
Mobilization for HSR Dismantling	November 28, 2005
Work Plan Addendum No. 22, Revision No. 00 Approved	November 29, 2005
N-S HSR Dismantling	November 29-30, 2005
E-W HSR Dismantling	December 1-2, 2005
Demobilization for HSR Dismantling	December 2, 2005
Environmental Conditions Report Submitted	December 15, 2005
Mobilization for HSR Pigging and Grouting	April 3, 2006
E-W HSR Pigging	April 3, 2006
N-S HSR Pigging	April 4, 2006
N-S and E-W HSR Grouting	April 11, 2006
N-S and E-W HSR Final Grouting and Pipe Cutting to Grade	April 13, 18, and 19, 2006
Demobilization for HSR Pigging and Grouting	April 19, 2006
Transportation and Disposal of Contaminated Materials	February 21, 2006 and May 2, 2006

2.2 Problems Encountered

No significant problems were encountered during the completion of the scope of work.

3.0 Construction Activities and Quality Control

3.1 Project Participants

The primary project participants are listed in Table 3-1.

TABLE 3-1
Organization of Project Participants

Company	Role	Name
NAVFAC SE	Remedial Project Manager	Mr. Mark Davidson
CH2M HILL	Project Manager	Mr. Michael Halil
	Project Superintendent	Mr. Greg Ramey
	Project Quality Control (QC) Manager	Mr. Greg Ramey Mr. Jeff Marks
	Site Health and Safety Specialist	Mr. Greg Ramey
Murphy Pipeline Contractors (MPC)	HSR Dismantling, Pigging, and Grouting Subcontractor	
Environmental Remediation Services (ERS)	Transportation and Disposal of Contaminated Materials Subcontractor	

3.2 Summary of Construction Activities

Construction activities, schedule, and QC related to the removal and pipeline pigging of the N-S and E-W HSRs at the former NAS Cecil Field are described in this section. Construction activities for the project included:

- Mobilization and site preparation
- Disconnecting and safely cold-cutting all aboveground piping at the HSRs to drain and remove any residual JP-5 fuel, as well as to facilitate HSR dismantling by others
- Inspecting, pigging, and grouting the underground piping at the HSRs to remove any residual JP-5 fuel and close the piping
- Cutting at and grouting to grade all underground HSR piping that terminates above ground
- Containerization, characterization, and T&D of generated or accumulated contaminated materials

CH2M HILL provided oversight of all field operations throughout the course of the project. CH2M HILL field oversight staff included Mr. Greg Ramey, Project Superintendent/Project

QC Manager/Site Health and Safety Specialist and Mr. Jeff Marks, Project QC Manager. Details of daily construction activities were maintained in the daily Contractor Production/QC Reports, field logbooks, and site field records. Photographs of construction activities were taken throughout the project and representative photographs are provided in Appendix A. Photographs taken prior to construction activities are provided in the project Environmental Conditions Report (CH2M HILL, 2005b).

3.3 Mobilization and Site Preparation

CH2M HILL and MPC completed mobilization and site preparation activities for dismantling the aboveground HSR piping on November 28, 2005, and for pigging and grouting the underground HSR piping on April 3, 2006. Mobilization and site preparation activities included attending JAA Runway and Ramp Training and obtaining site access badges, mobilizing personnel and equipment to the work site, and establishing site and spill containment controls.

3.4 Dismantling of High Speed Refueler Aboveground Piping

MPC completed dismantling the aboveground N-S and E-W HSR piping from November 29, 2005, to December 2, 2005. HSR dismantling was sequenced starting at the north end of the N-S HSRs working south and from the east end of the E-W HSRs working west. The 4-, 6-, 8-, and 14-inch diameter aboveground HSR piping and equipment was dismantled using hand tools, cold cut into manageable sections using 4-wheel pipe cutters, handled and lifted using a rubber-tire backhoe where necessary, drained of any encountered residual JP-5 fuel, inspected to verify residual fuel free, and staged onsite for final disposition by the JAA contractor. Figures 3-1 and 3-2 illustrate the sections aboveground N-S and E-W HSR piping that were dismantled.

Encountered residual JP-5 fuel was recovered from the aboveground piping, pumps, and meter stations using drip pans and absorbent pads and granules. Two 55-gallon drums, one each for the N-S HSRs and E-W HSRs, were used to containerize the recovered residual JP-5 fuel and spent absorbent. The volume of residual JP-5 fuel is difficult to quantify because absorbents were used to recover the majority of the encountered fuel.

During completion of this task, the presence of an unknown quantity of residual JP-5 fuel was verified in the sections of HSR underground piping that had not been previously pigged.

3.5 Pigging and Grouting of High Speed Refueler Underground Piping

To remove residual JP-5 fuel present in the underground sections of HSR piping, MPC completed pigging the underground N-S and E-W HSR piping on April 3 and 4, 2006. The E-W HSRs were pigged first, followed by the N-S HSRs. The following general procedures were used to pig the HSR underground piping:

1. At the selected end of the underground pipe segment, the pig launcher was installed and the appropriate sized Poly-Pig brand C3 Double Dish bi-directional foam pig (appropriate for heavy duty cleaning of light petroleum distillate lines) was introduced into the pipe. For each section of pipe, a new foam pig was marked for identification prior to launching. The opposite piping ends were closed with a pressure cap.
2. Pressurized air supplied by an air compressor was used to move the foam pig through the pipe segment.
3. The foam pig was then retrieved from the opposite vented end of the pipe segment. Fluids and residual JP-5 fuel were captured at this point and containerized. All residual liquid (i.e., JP-5 fuel and water) were captured using a 55-gallon drum placed at the vented end of the pipe segment. This area was also lined with 10-mil plastic visqueen and surrounded with absorbent pads and booms to prevent spillage.
4. Where a lateral pipe segment was present, the lateral pipe segment was pigged first then the longer main pipe segment was pigged.
5. On completion of pigging, air was forced through the pipe segment and the lower explosive limit (LEL) of the outflow air was measured using a BW Technologies GA Max-4 meter. Outflow air LEL measurements were consistently 0 percent.

Minimal quantities of fuel with small amounts of water were recovered during pigging of each underground pipe segment. One 55-gallon drum was generated for both the N-S and E-W HSRs to containerize the recovered residual liquids and spent absorbent from pigging activities.

Following pigging, MPC completed closure of the HSR underground piping on April 11, 2005, by filling the piping with grout using a pressurized grouting method. The E-W HSRs were grouted first, followed by the N-S HSRs. Each pipe segment was prepared for grouting by bolting a flange with camlock fitting to one end of the pipe segment. Grout (S&W Materials Mix Design 2FA) was then pumped through the camlock fitting into the pipe segment using a Mayco C30 trailer-mounted grout pump until the grout emerged at the open pipe end(s). The grout mix design is provided in Appendix C. The delivered grout quantity (17 cubic yards with returned wastage of approximately 2 cubic yards yielding a net 15 cubic yards delivered) exceeded the design grout quantity (slightly less than 11 cubic yards) with each pipe segment confirmed fully grouted by visual inspection at the open pipe ends. The design grout quantity was calculated using the site surveys included in Appendix B and field measured pipe lengths, and did not take into account unknown pipe depths, directional changes, or locations of pipe diameter changes. The design grout quantity worksheet is provided in Appendix D and the grout delivery tickets are provided in Appendix E.

Following grouting, MPC cut and finished flush at grade all aboveground terminations of underground pipe segments on April 13, 18, and 19, 2006. Encountered vent hoses/piping were also cut and finished flush at grade. Prior to any pipe cutting, the LEL within the pipe ends were measured using a BW Technologies GA Max-4 meter. LEL measurements were consistently 0 percent. The aboveground pipe ends were cut to grade using a Dolmar gasoline-engine powered 14-inch cutoff saw with metal cutting abrasive saw blades. Site-mixed grout (sackcrete mortar mix) was placed in the remaining annular pipe segment ends

and finished at grade. For underground pipe segments not grouted, a plug was inserted approximately 2 feet into the pipe to serve as a foundation for the grout.

Figures 3-1 and 3-2 illustrate the sections that were pigged and grouted of underground N-S and E-W HSR piping.

3.6 Decontamination and Demobilization

Decontamination activities were completed by CH2M HILL and MPC throughout project completion and included the proper decontamination to remove all residual JP-5 fuel that may be adhering to personnel or equipment as a result of construction activities. Tools and equipment were cleaned of any visible fuel residue using absorbent pads, with the spent absorbent pads containerized in the generated 55-gallon drums.

CH2M HILL and MPC completed demobilization activities for dismantling the aboveground HSR piping on December 2, 2005, and for pigging and grouting the underground HSR piping on April 19, 2006. Demobilization activities included removing all equipment, temporary facilities, and site controls from the site. Any debris or solid waste material remaining from construction activities was removed and properly disposed. All remaining cut pipe ends, bolts, flanges, and grout debris were removed from the site.

3.7 Transportation and Disposal of Generated or Accumulated Contaminated Materials

Prior to offsite disposal, waste profile packages were prepared and provided to Mr. John Brummett of the NAS Jacksonville Public Works Center (PWC) for approval and signature. Based on generator knowledge, wastes were characterized as non-hazardous. Once profile approval was received, manifests were generated and provided to PWC for signature.

One 55-gallon drum of JP-5 fuel/petroleum contact water generated by the JAA contractor during their initial site work was transported on February 21, 2006, by ERS for disposal at Industrial Water Services, Inc. Two 55-gallon drums of JP-5 fuel/spent absorbents generated during HSR dismantling and one 55-gallon drum of JP-5 fuel/spent absorbents generated during HSR pigging were transported on February 21, 2006, and May 2, 2006, respectively, by ERS for disposal at Waste Management - Chesser Island Road Landfill. The Transportation and Disposal Log, waste profiles, manifests, and certificates of disposal are provided in Appendix F.

A MAP SHOWING A SPECIFIC PURPOSE SURVEY OF A PORTION OF THE REFUELING SYSTEM AT CECIL COMMERCE CENTER AIR FIELD, CITY OF JACKSONVILLE, DUVAL COUNTY, FLORIDA.

NOTES:
 1.) COORDINATES REFER TO FLORIDA EAST ZONE, NORTH AMERICAN DATUM 83/90 ADJUSTMENT.
 2.) CONTROL COORDINATES ORIGIN 6/ES 641 1990 AND 159 1990
 3.) THE FUEL LINE ARE UNDERGROUND, THEY WERE LOCATED FROM SURFACE DESIGNATIONS BY OTHERS.

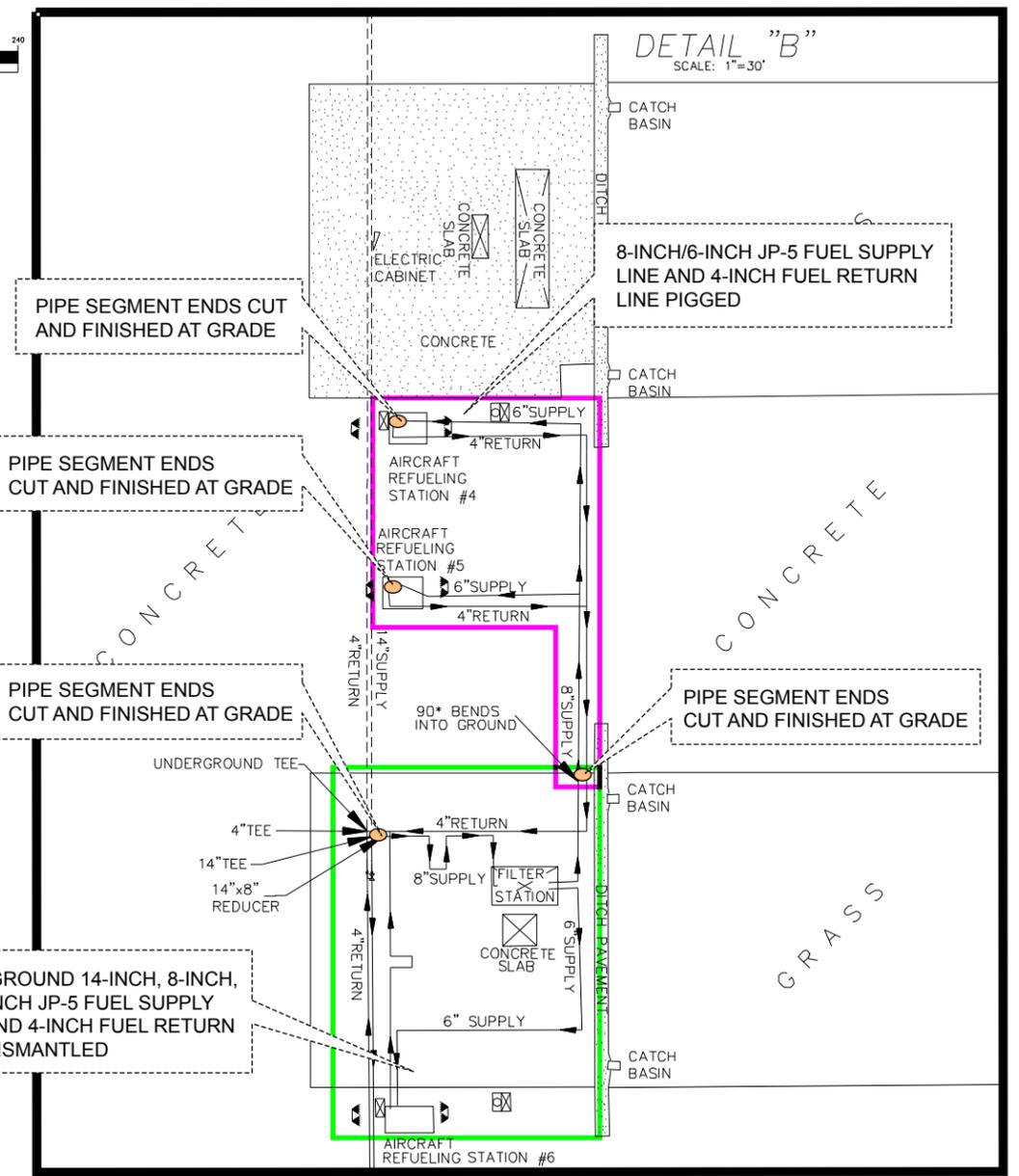
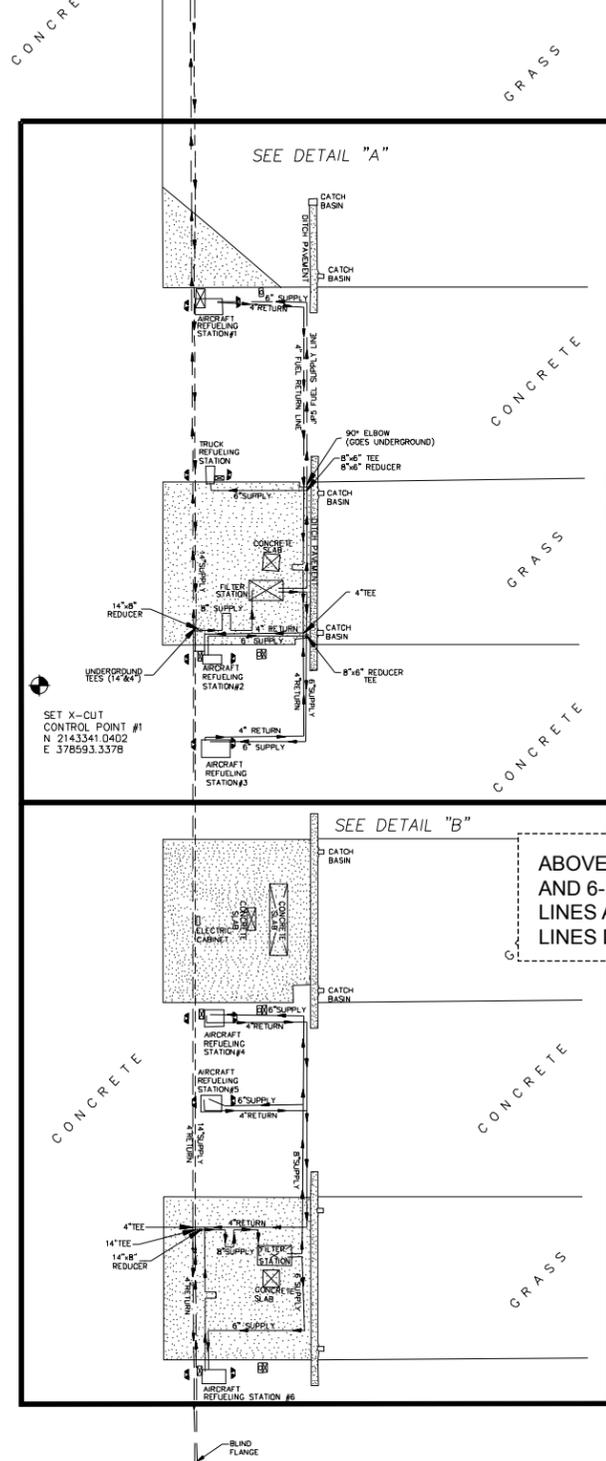
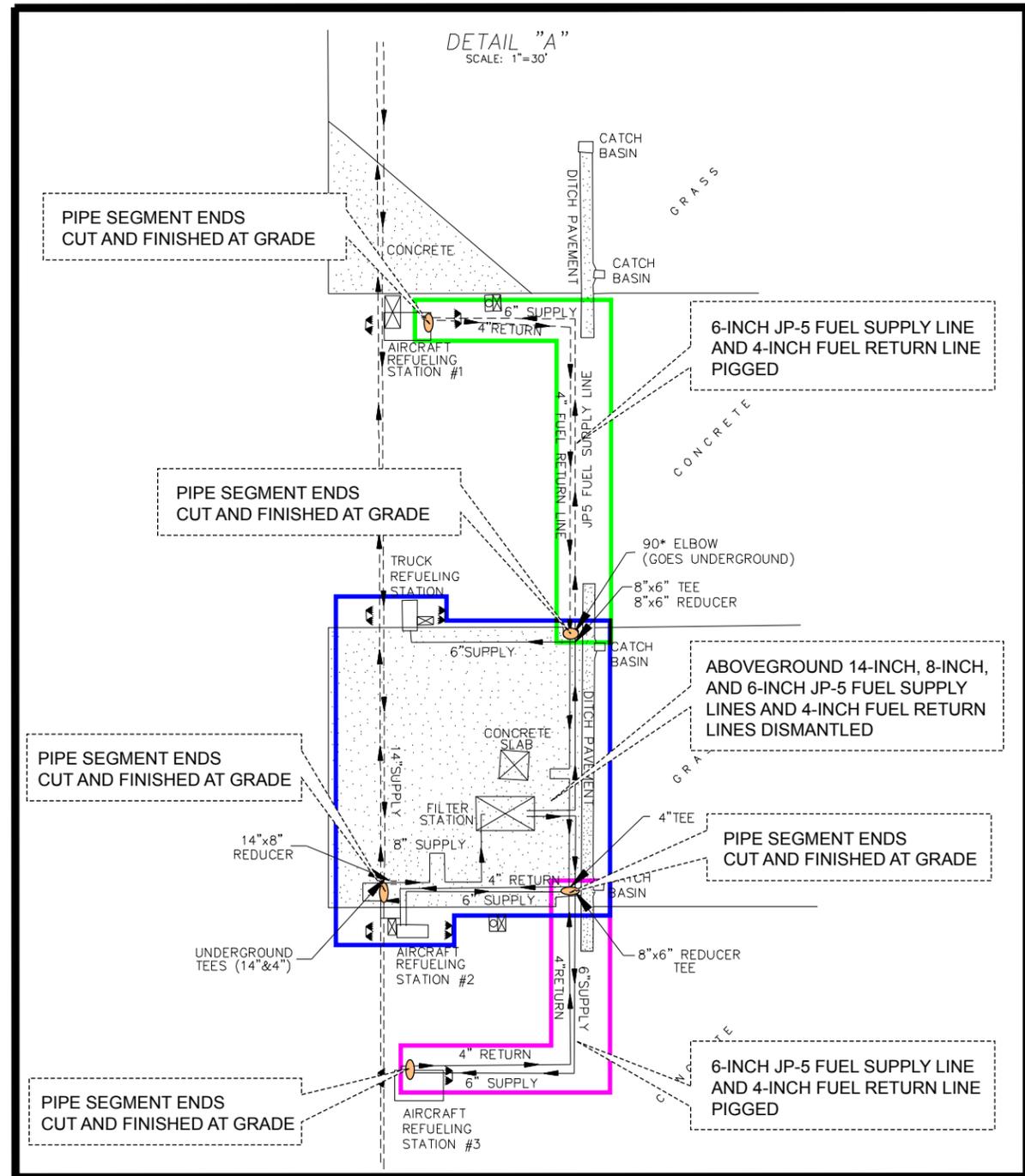
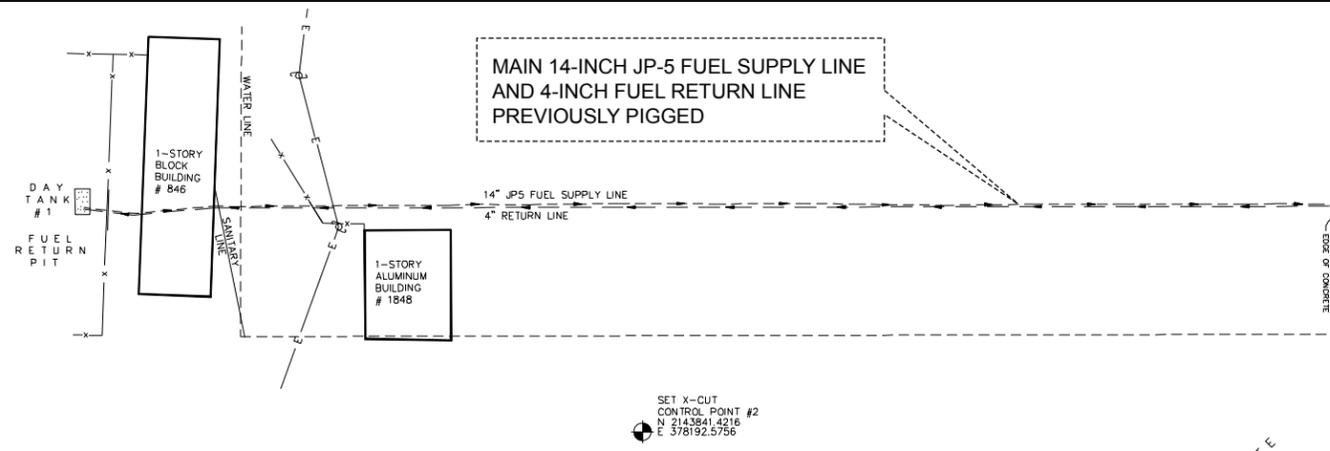


FIGURE 3-1
 North-South High Speed Refuelers
 Site Plan

LEGEND

	UNDERGROUND ELECTRIC VAULT
	FLOW DIRECTION
	OVERHEAD ELECTRIC LINE
	UTILITY POLE
	ELECTRICAL CABINET
	FLOOD LIGHT
	CONCRETE
	UNDERGROUND PIPING
	ABOVEGROUND PIPING

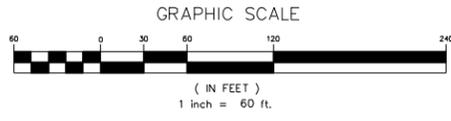
ARNOLD J. JOHNS
 FLORIDA REGISTERED LAND SURVEYOR NO. 4422
 NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

REVISED 4/15/02 PER CLIENTS REMARKS.

BRADLEY
 LAND SURVEYORS

5773 NORMANDY BOULEVARD,
 JACKSONVILLE, FLORIDA 32205
 PHONE (904) 786-6400 FAX (904) 786-1479
 LICENSED BUSINESS No. 6988

W.O. NO.: 02-120	SURVEY DATE: 3/14/02	DRAFTED BY: J. WEINERT
CHECKED BY: D. JOHNSON	CAD FILE: 02120.DWG	FB 331 PG 18--22



ABOVEGROUND 14-INCH AND 8-INCH JP-5 FUEL SUPPLY LINES AND 4-INCH FUEL RETURN LINES DISMANTLED

PIPE SEGMENT ENDS CUT AND FINISHED AT GRADE

6-INCH JP-5 FUEL SUPPLY LINE AND 4-INCH FUEL RETURN LINE PIGGED

PIPE SEGMENT ENDS CUT AND FINISHED AT GRADE

DETAIL
1" = 30'

PIPE SEGMENT ENDS CUT AND FINISHED AT GRADE

PIPE SEGMENT ENDS CUT AND FINISHED AT GRADE

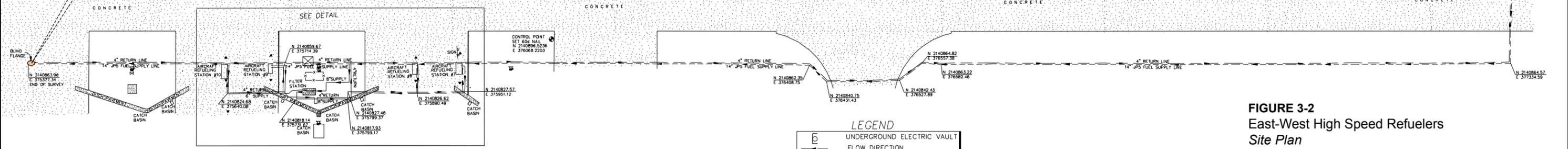
PIPE SEGMENT ENDS CUT AND FINISHED AT GRADE

8-INCH/6-INCH JP-5 FUEL SUPPLY LINE AND 4-INCH FUEL RETURN LINE PIGGED

PIPE SEGMENT ENDS CUT AND FINISHED AT GRADE

MAIN 14-INCH JP-5 FUEL SUPPLY LINE AND 4-INCH FUEL RETURN LINE PREVIOUSLY PIGGED

PIPE SEGMENT ENDS CUT AND FINISHED AT GRADE



LEGEND

	UNDERGROUND ELECTRIC VAULT
	FLOW DIRECTION
	OVERHEAD ELECTRIC LINE
	UTILITY POLE
	ELECTRICAL CABINET
	FLOOD LIGHT
	CONCRETE
	UNDERGROUND PIPING
	ABOVEGROUND PIPING

NOTES:
1.) COORDINATES REFER TO FLORIDA EAST ZONE, NORTH AMERICAN DATUM 83/90 ADJUSTMENT.
2.) CONTROL COORDINATES ORIGIN IS FROM CONTROL MONUMENTS JEA 641 1990 AND JEA 159 1990.
3.) THE FUEL LINES ARE UNDERGROUND, THEY WERE LOCATED FROM SURFACE DESIGNATIONS BY OTHERS.

FIGURE 3-2
East-West High Speed Refuelers
Site Plan

REVISED 8/08/02 AS PER COMMENTS

	5773 NORMANDY BOULEVARD, JACKSONVILLE, FLORIDA 32205 PHONE (904) 786-6400 FAX (904) 786-1479 LICENSED BUSINESS No. 8888	
	W.O. NO.: 02-174 CHECKED BY: DMJ	SURVEY DATE: 4/22/02 CAD FILE: 02174.DWG

ARNOLD J. JOHNS
FLORIDA REGISTERED LAND SURVEYOR NO. 4422
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

4.0 Final Inspection and Site Status Summary

4.1 Final Inspections

No final inspection was conducted by the Navy; however, final inspections were conducted on December 2, 2005 and April 19, 2006 by CH2M HILL with MPC. No deficiencies were noted during the final inspections.

4.2 Site Status Summary

As outlined in the CTO No. 0057 Work Plan Addendum No. 22 (CH2M HILL, 2005a), the scope of work included the following:

- Mobilization and site preparation
- Identification and avoidance of all aboveground and underground utilities or other manmade structures
- Disconnecting and safely cold-cutting all aboveground piping at the HSRs to drain and remove any residual JP-5 fuel, as well as to facilitate HSR dismantling by others
- Inspecting underground piping at the HSRs and removing any residual JP-5 fuel. If pipeline pigging had become necessary to remove residual JP-5 fuel from the underground piping, the following tasks were to be completed:
 - Excavating the area around the underground piping where the pig launcher will be installed
 - Pigging and rendering fuel lines gas free
 - Mechanically capping the underground piping once made gas free
 - Site restoration
- Containerization, characterization, transportation, and disposal (T&D) of generated or accumulated contaminated materials
- Preparation of a Construction Completion Report

As specified in the CTO No. 0057 Work Plan Addendum No. 22 (CH2M HILL, 2005a), the project objective was to remove all residual JP-5 fuel from the aboveground and underground piping at the N-S and E-W HSRs to ensure that no JP-5 fuel is encountered during future construction activities at the site.

As documented in this Construction Completion Report, CH2M HILL with MPC completed the following scope of work:

- Mobilization and site preparation activities, to include attending JAA Runway and Ramp Training and obtaining site access badges, mobilizing personnel and equipment to the work site, and establishing site and spill containment controls.
- Dismantling of the aboveground N-S and E-W HSR piping and equipment by using hand tools, cold cutting into manageable sections using 4-wheel pipe cutters, handling and lifting using a rubber-tire backhoe where necessary, draining of any encountered residual JP-5 fuel, inspection to verify residual fuel free, and staging of onsite for final disposition by the JAA contractor
- Piggging of the underground pipe segments of the N-S and E-W HSRs to remove residual JP-5 fuel by using pressurized air to move the appropriate sized Poly-Pig brand C3 Double Dish bi-directional foam pig through the pipe segments, and capturing and containerizing all fluids and residual JP-5 fuel
- Grouting of the underground pipe segments of the N-S and E-W HSRs to ensure no residual JP-5 fuel or contaminated air could remain in the piping by delivering approximately 15 cubic yards of grout into the pipe segments using a pressurized grout method until each pipe segment was confirmed fully grouted by visual inspection at the open pipe ends
- Cutting and grouting to grade all aboveground terminations of underground pipe segments by using a gasoline-engine powered cutoff saw, filling the remaining annular pipe segment ends with site-mixed grout, and finishing at grade
- Decontamination and demobilization activities, to include proper decontamination to remove all residual JP-5 fuel that may be adhering to personnel or equipment as a result of construction activities; removal of all equipment, temporary facilities, and site controls from the site; and removal and disposal of any debris or solid waste material remaining from construction activities
- Containerization, characterization, and T&D of four 55-gallon drums of JP-5 fuel, petroleum contact water, and spent absorbent generated by construction activities

As outlined in this Construction Completion Report, CH2M HILL has completed the project scope and achieved the project objective stated in the CTO No. 0057 Work Plan Addendum No. 22, Revision No. 00 (CH2M HILL, 2005a).

5.0 References

CH2M HILL Constructors, Inc. 1998a. *Contract Management Plan for Response Action Contract No. N62467-98-D-0995*. July.

CH2M HILL Constructors, Inc. 1998b. *Basewide Work Plan, Naval Air Station Cecil Field, Jacksonville, Florida. Revision No. 01*. November.

CH2M HILL Constructors, Inc. 2004. *Contract Task Order No. 0021 Construction Completion Report, JP-5 Pipeline Pigging, Former Naval Air Station Cecil Field, Jacksonville, Florida*. June.

CH2M HILL Constructors, Inc. 2005a. *Contract Task Order No. 0057 Work Plan Addendum No. 22, Revision No. 00, High Speed Refuelers Removal and Pipeline Pigging, Former Naval Air Station Cecil Field, Jacksonville, Florida*. November.

CH2M HILL Constructors, Inc. 2005b. *Contract Task Order No. 0057 Environmental Conditions Report, High Speed Refuelers Removal and Pipeline Pigging, Former Naval Air Station Cecil Field, Jacksonville, Florida*. December.

Appendix A

Site Photographs

Dismantling

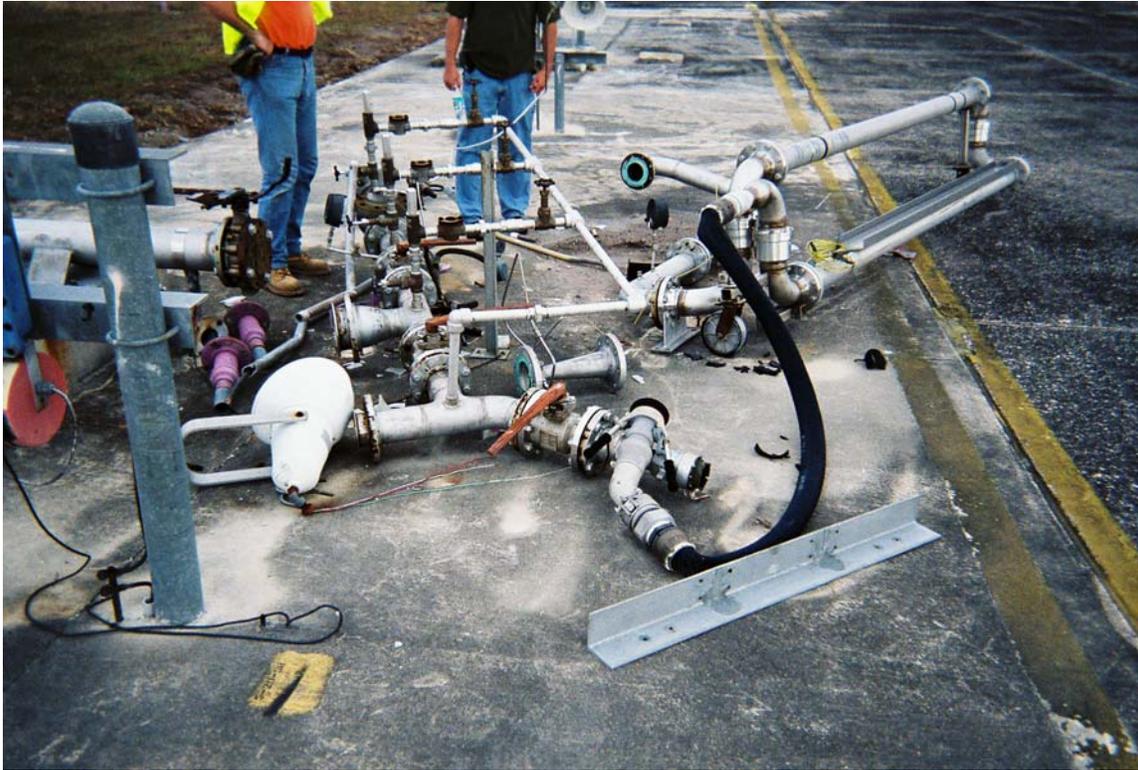


Photo 1 - View of dismantling piping and equipment at aircraft fueling station



Photo 2 - View of 4-inch and 6-inch diameter aboveground fuel lines prior to cutting



Photo 3 - View of 4-inch, 6-inch, and 8-inch diameter aboveground fuel lines prior to cutting



Photo 4 - View of 14-inch and 4-inch diameter fuel lines prior to cutting



Photo 5 - View of dismantling flanges at 4-inch and 6-inch diameter fuel lines



Photo 6 - View of cut and drained aboveground fuel pipe segments



Photo 7 - View of absorbents in end of cut fuel line pipe segment



Photo 8 - View of spill containment at catch basin



Photo 9 - View of cut and drained aboveground fuel pipe segments



Photo 10 - View of spill containment and dismantled 4-inch diameter fuel line and flange



Photo 11 - View of cut and drained aboveground fuel pipe segments



Photo 12 - View of cold cutting 8-inch diameter fuel line

Pigging



Photo 1 - View of installation of flange and pig launcher to 4-inch diameter fuel line



Photo 2 - View of installation of flange and pig launcher to 4-inch diameter fuel line



Photo 3 - View of pressure cap on 6-inch diameter fuel line



Photo 4 - View of pig retrieval/vented end of 6-inch diameter fuel line



Photo 5 - View of flange and pig launcher to 6-inch diameter fuel line



Photo 6 - View of air compressor used to supply compressed air for pigging



Photo 7 - View of pig retrieval/vented end of 4-inch diameter fuel line

Grouting



Photo 1 - View of grouted 6-inch diameter fuel line



Photo 2 - View of grouting flange and camlock fitting on 6-inch diameter fuel line



Photo 3 - View of grouting flange and camlock fitting on 6-inch diameter fuel line



Photo 4 - View of grouted 4-inch diameter fuel line



Photo 5 - View of grouting 14-inch diameter fuel line



Photo 6 - View of grouted 8-inch diameter fuel line



Photo 7 - View of grouting flange and camlock fitting on 6-inch diameter fuel line



Photo 8 - View of grout pump hopper



Photo 9 - View of grouted 8-inch diameter fuel line



Photo 10 - View of grouted 8-inch diameter fuel line

Cutting



Photo 1 - View of cutting a 14-inch diameter fuel line



Photo 2 - View of cutting a 4-inch diameter fuel line



Photo 3 - View of cutting a 4-inch diameter fuel line



Photo 4 - View of cutting a 6-inch diameter fuel line



Photo 5 - View of cutting a 14-inch diameter fuel line



Photo 6 - View of collecting the LEL measurements



Photo 7 - View of cutting a 6-inch diameter reducer on a 14-inch diameter fuel line



Photo 8 - View of cutting a 14-inch diameter fuel line

Project Completion



Photo 1 - View of restored finished grade of fuel lines in grass area



Photo 2- View of restored finished grade of fuel lines in grass area



Photo 3 - View of restored finished grade of fuel lines in area of concrete



Photo 4 - View of restored finished grade of fuel lines in area of pavement



Photo 5 - View of restored finished grade of fuel lines in area of concrete



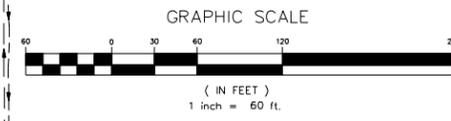
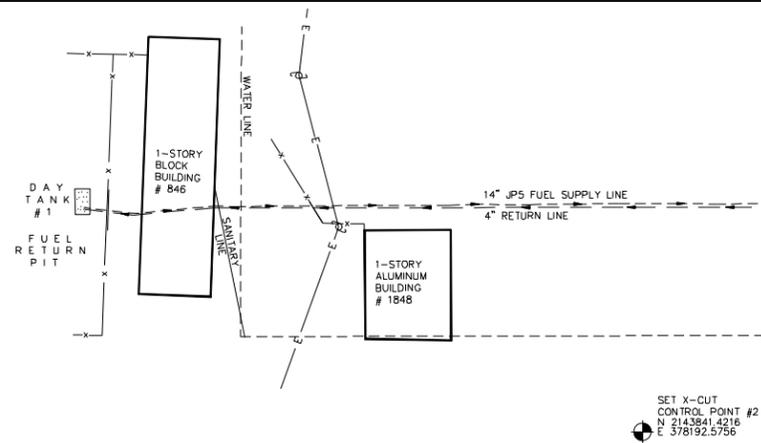
Photo 6 - View of restored finished grade of fuel lines in area of concrete

Appendix B

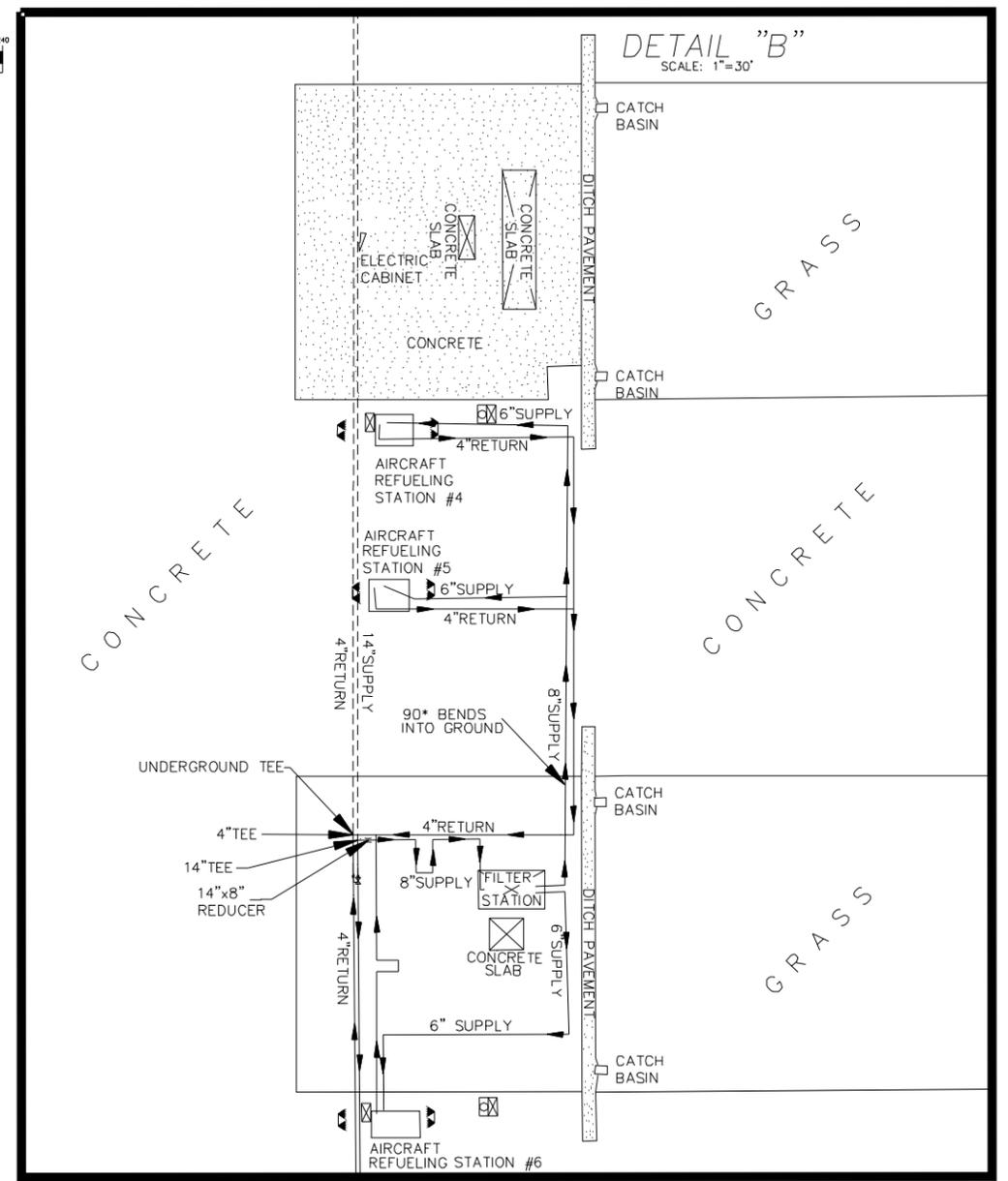
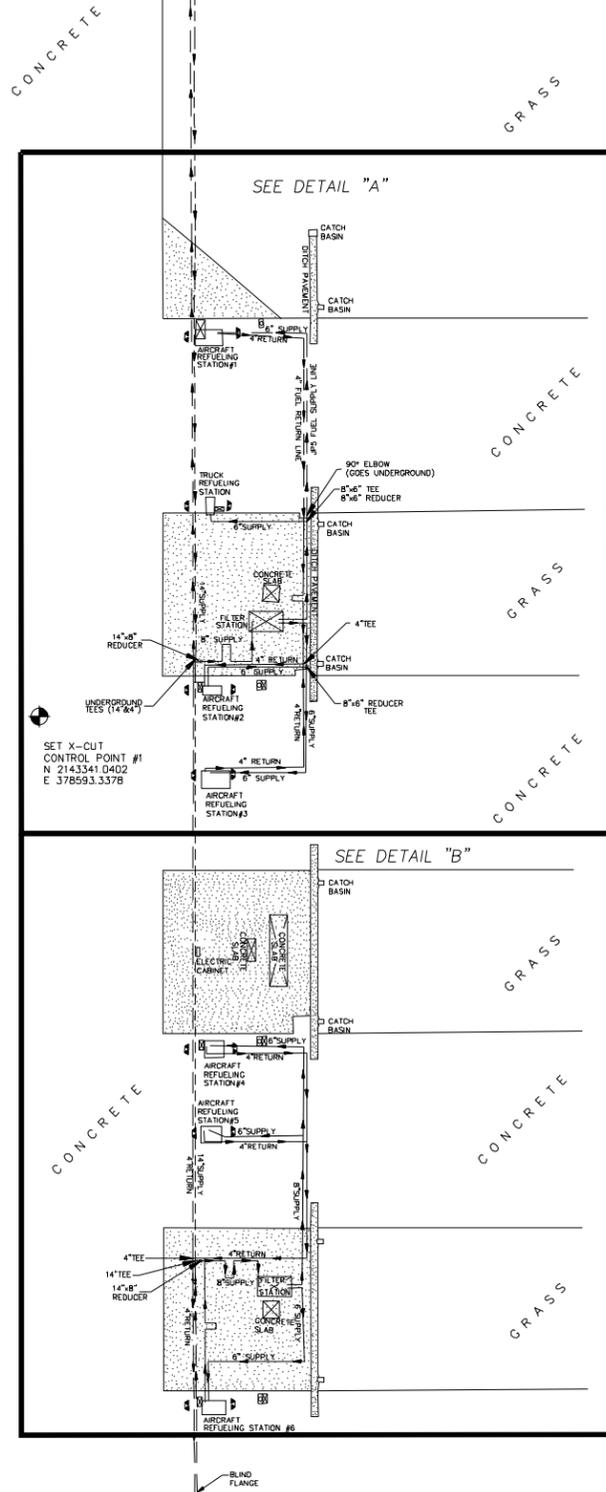
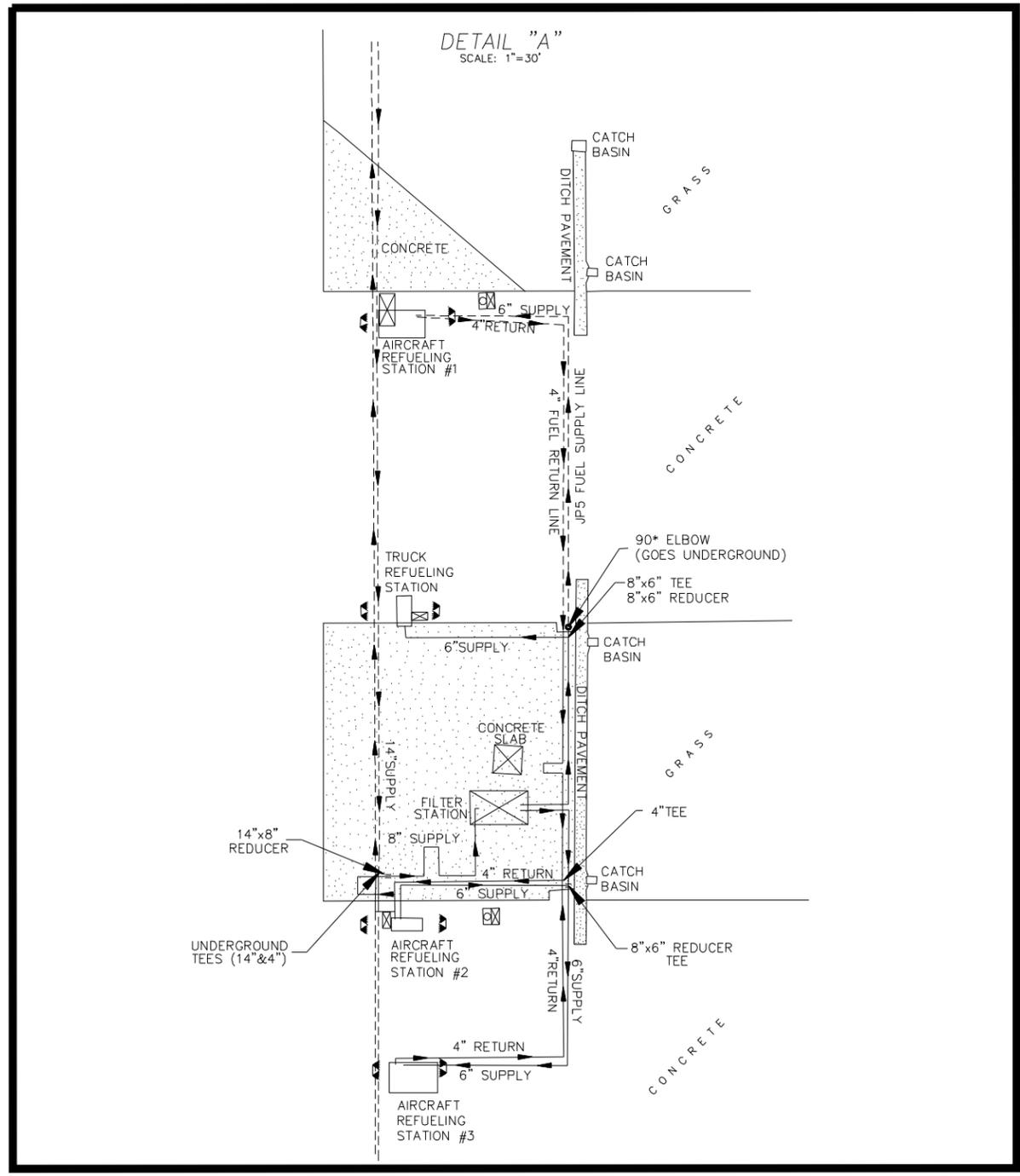
Site Surveys

A MAP SHOWING A SPECIFIC PURPOSE SURVEY OF
A PORTION OF THE REFUELING SYSTEM AT CECIL COMMERCE CENTER AIR FIELD, CITY OF JACKSONVILLE,
DUVAL COUNTY, FLORIDA.

NOTES:
1.) COORDINATES REFER TO FLORIDA EAST ZONE, NORTH AMERICAN DATUM 83/90 ADJUSTMENT.
2.) CONTROL COORDINATES ORIGIN 6 S 841 1990 AND 4 E 159 1990
3.) THE FUEL LINE ARE UNDERGROUND, THEY WERE LOCATED FROM SURFACE DESIGNATIONS BY OTHERS.



SET X-CUT
CONTROL POINT #2
N 2143341.4216
E 378192.5756



LEGEND

	UNDERGROUND ELECTRIC VAULT
	FLOW DIRECTION
	OVERHEAD ELECTRIC LINE
	UTILITY POLE
	ELECTRICAL CABINET
	FLOOD LIGHT
	CONCRETE
	UNDERGROUND PIPING
	ABOVEGROUND PIPING

ARNOLD J. JOHNS
FLORIDA REGISTERED LAND SURVEYOR NO. 4422
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

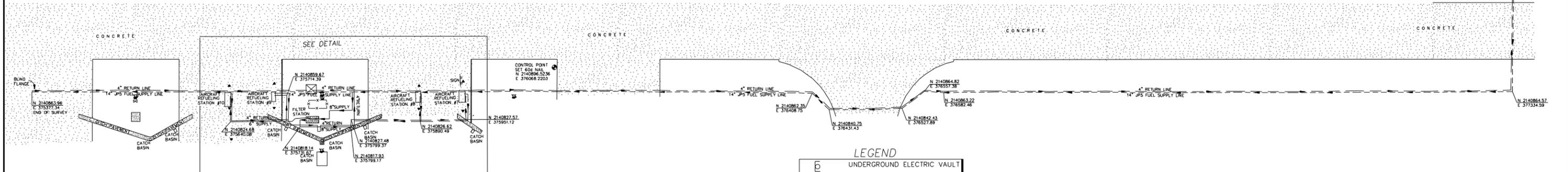
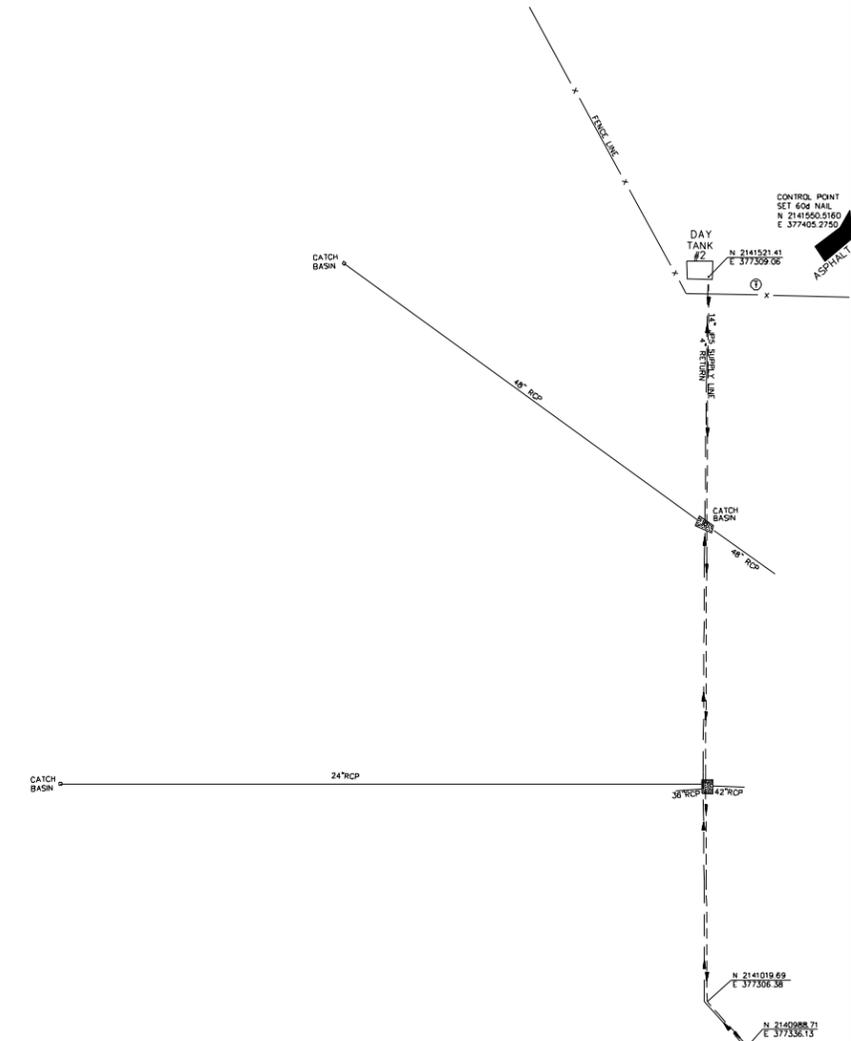
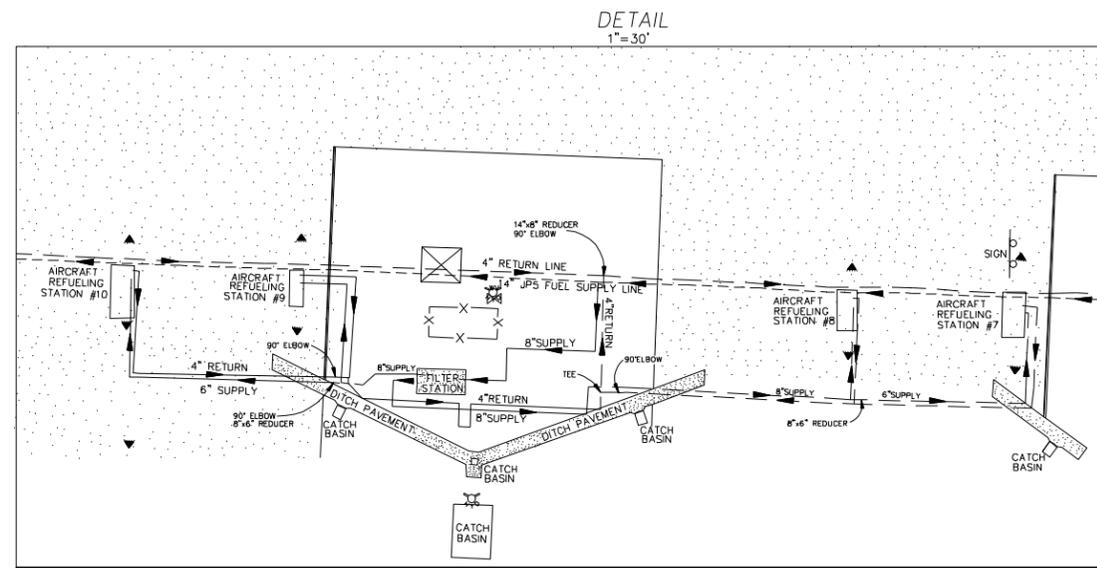
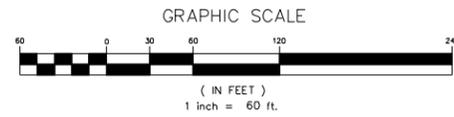
REVISED 4/15/02 PER CLIENTS REMARKS.

BRADLEY
LAND SURVEYORS

5773 NORMANDY BOULEVARD,
JACKSONVILLE, FLORIDA 32205
PHONE (904) 786-6400 FAX (904) 786-1479
LICENSED BUSINESS No. 6988

W.O. NO.: 02-120	SURVEY DATE: 3/14/02	DRAFTED BY: J. WEINERT
CHECKED BY: D. JOHNSON	CAD FILE: 02120.DWG	FB 331 PG 18-22

A MAP SHOWING A SPECIFIC PURPOSE SURVEY OF
A PORTION OF THE JPS REFUELING SYSTEM AT CECIL COMMERCE CENTER AIR FIELD, CITY OF JACKSONVILLE, DUVAL COUNTY, FLORIDA.



LEGEND

	UNDERGROUND ELECTRIC VAULT
	FLOW DIRECTION
	OVERHEAD ELECTRIC LINE
	UTILITY POLE
	ELECTRICAL CABINET
	FLOOD LIGHT
	CONCRETE
	UNDERGROUND PIPING
	ABOVEGROUND PIPING

NOTES:
1.) COORDINATES REFER TO FLORIDA EAST ZONE, NORTH AMERICAN DATUM 83/90 ADJUSTMENT.
2.) CONTROL COORDINATES ORIGIN IS FROM CONTROL MONUMENTS JEA 641 1990 AND JEA 159 1990.
3.) THE FUEL LINES ARE UNDERGROUND, THEY WERE LOCATED FROM SURFACE DESIGNATIONS BY OTHERS.

REVISED 8/08/02 AS PER COMMENTS

LD BRADLEY
LAND SURVEYORS

5773 NORMANDY BOULEVARD,
JACKSONVILLE, FLORIDA 32205
PHONE (904) 786-6400 FAX (904) 786-1479
LICENSED BUSINESS No. 8888

ARNOLD J. JOHNS
FLORIDA REGISTERED LAND SURVEYOR NO. 4422
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

W.O. NO.: 02-174	SURVEY DATE: 4/22/02	DRAFTED BY: J. WEINERT
CHECKED BY: DMJ	CAD FILE: 02174.DWG	FB 331 PG 24-25

Appendix C

Grout Mix Design

Name: WESTFALL HUFFMAN LLC
Project: VARIOUS JOB
Mix ID: 2FA
Description: 3000 GROUT 20%
 C100

	Weight CY	Yield
#57 LIMESTONE		
Sand	2163	13.18
Type I/II Cement	680	3.45
FLY ASH	170	1.15
NEW CEM		
MBAL 90	1.2 OZ CY	1.08
Pozz 80	59.5 OZ CY	0
Water	508.13	8.14
Total	3521.13	27.00
Unit Weight	130.41	
W/C Ratio	0.60	

SLUMP 7"

ENTRAINED AIR 4%

Material Source

52 Limerock	RINKER 87-090 ASTM C-33
Sand	FLA ROCK 76.349 ASTM C-33
Type I/II Cement	SUWANNE AMER TYPE III I/II ASTM C-150
New Cem	LAFARGE C-989
FLY ASH	STI PROASH ASTM C-618 CLASS F
MBAE 90	MASTER BUILDERS ASTM C-260
POZZ 200N	MASTER BUILDERS ASTM C-494
Pozz 122 HE	Master Builders
Water	Well

Appendix D

Calculated Grout Quantity

MPC Cecil Field Pigging and Grouting

Estimated Pipeline Grout Quantities

Original Sketches

Dia (inches)	Est. Length (Ft)	Est. Vol (CF)	Est. Vol (CY)
<u>East West Refuelers</u>			
<u>West</u>			
6	100	19.63	0.73
4	100	<u>8.72</u>	<u>0.32</u>
Subtotal		28.35	1.05
<u>East</u>			
8	146	50.94	1.89
6	70	13.74	0.51
4	205	<u>17.88</u>	<u>0.66</u>
Subtotal		82.56	3.06
Total (East West)		110.90	4.11
<u>North South Refuelers</u>			
<u>West (N)</u>			
6	200	39.25	1.45
4	200	<u>17.44</u>	<u>0.65</u>
Subtotal		56.69	2.10
<u>West (S)</u>			
6	150	29.44	1.09
4	150	<u>13.08</u>	<u>0.48</u>
Subtotal		42.52	1.57
<u>East</u>			
8	260	90.71	3.36
6	150	29.44	1.09
4	150	<u>13.08</u>	<u>0.48</u>
Subtotal		133.23	4.93
Total (North South)		175.75	6.51
Total (Job)		286.66	10.62

MPC Cecil Field Pigging and Grouting

Estimated Pipeline Grout Quantities

Field Measured Lengths 04-03-06

Dia (inches)	Est. Length (Ft)	Nominal Est. Vol (CF)	Nominal Est. Vol (CY)
<u>East West Refuelers</u>			
<u>West</u>			
6	235	46.12	1.71
4	235	<u>20.50</u>	<u>0.76</u>
Subtotal		66.62	2.47
<u>East</u>			
8	146	50.94	1.89
6	70	13.74	0.51
4	210	<u>18.32</u>	<u>0.68</u>
Subtotal		82.99	3.07
Total (East West)		149.61	5.54
<u>North South Refuelers</u>			
<u>West (N)</u>			
6	200	39.25	1.45
4	200	<u>17.44</u>	<u>0.65</u>
Subtotal		56.69	2.10
<u>West (S)</u>			
6	150	29.44	1.09
4	150	<u>13.08</u>	<u>0.48</u>
Subtotal		42.52	1.57
<u>East</u>			
8	150	52.33	1.94
6	160	31.40	1.16
4	160	<u>13.96</u>	<u>0.52</u>
Subtotal		97.69	3.62
Total (North South)		140.21	5.19
Total (Job)		289.82	10.73

Appendix E

Grout Delivery Tickets



S&W Materials, Inc.

10417 Alta Drive
Jacksonville, FL 32226

phone (904) 757-2222

S&W Materials, Inc.

1219 Clear Hall Lane
Green Cove Springs, FL 32043

phone (904) 269-4757

S&W Materials, Inc.

900 US Hwy 301 N.
Baldwin, FL 32234

phone (904) 266-3041

3 349071

WARNING

IRRITATING TO THE SKIN AND EYES

Contains Portland Cement. Wear rubber boots and gloves. **PROLONGED CONTACT MAY CAUSE BURNS.** Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. **KEEP CHILDREN AWAY.**

Water added on job 0 gals.
Water requested by _____

CONCRETE received and WATER added at the request of the customer subject to conditions of sale and delivery on reverse side.

PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE.)

Dear Customer - the owner of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and this supplier from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED:

X _____

ALL INVOICES ARE DUE AND PAYABLE BY THE 10TH OF THE MONTH FOLLOWING THE DATE OF PURCHASE. A 1% DISCOUNT IS ALLOWED IF ALL PRIOR INVOICES ARE PAID IN FULL. A 1.5% PER MONTH FINANCE CHARGE WILL BE ASSESSED ON ALL OPEN BALANCES AS OF THE 30TH OF THE MONTH FOLLOWING DELIVERY AND CALCULATED BASED ON THE INVOICE DUE DATE. IN ADDITION, I AGREE TO PAY FEES IN THE AMOUNT OF 33.33% IF PLACED IN THE HANDS OF AN AGENCY/ATTORNEY FOR COLLECTION.

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE.

LOAD RECEIVED BY

[Signature]
X _____

DATE	CUSTOMER #	ORDER#	TRUCK#	DRIVER	PURCHASE ORDER #
Apr 11, 2006	32	3000	37	DREW MCCOY	904-635-6702

SOLD TO: COD MURPHY PIPE LINE
PROJECT:
DELIVERY ADDRESS: FIELD AVIATION AVE
INSTRUCTIONS: 6.5 YARD LOADS

ORDERED FOR

USE

SLUMP

LOAD QUANTITY	CUMULATIVE QUANTITY	ORDERED QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION	UNIT PRICE	AMOUNT
6.50 cy	6.50cy	13.00		3000-C-100-GROUT	132.00	858.00
				FUEL	20.00	20.00
						\$ 187

C.O.D. *Bill Huffman*
 NAME _____
 DL # MURPHY PIPE LINE # 342.3
 PHONE # _____
 CK # _____
 RECV'D _____

LOT # Correct Incorrect
 Correct Lot # _____
 Addition Lots Poured _____
 Ticket in DOC Box Yes No

SUB TOTAL		TAX		TOTAL		RUNNING TOTAL	
878.00		61.46		939.46		939.46	
WAITING TIME CHARGE							
LOAD TIME	TO JOB	ARRIVE JOB SITE	BEGIN POUR	FINISH POUR	LEAVE JOB SITE	ARRIVE PLANT	TAX
11:03	11:27	12:08	12:12				
PAY THIS AMOUNT ▶							



S&W Materials, Inc.

10417 Alta Drive
Jacksonville, FL 32226
phone (904) 757-2222

S&W Materials, Inc.

1219 Clear Hall Lane
Green Cove Springs, FL 32043
phone (904) 269-4757

S&W Materials, Inc.

900 US Hwy 301 N.
Baldwin, FL 32234
phone (904) 266-3041

3 349102

WARNING
IRRITATING TO THE SKIN AND EYES

Contains Portland Cement. Wear rubber boots and gloves. **PROLONGED CONTACT MAY CAUSE BURNS.** Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. **KEEP CHILDREN AWAY.**

Water added on job _____ gals.
Water requested by _____

CONCRETE received and WATER added at the request of the customer subject to conditions of sale and delivery on reverse side.

PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE.)
Dear Customer - the owner of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and this supplier from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.
SIGNED:

X _____

ALL INVOICES ARE DUE AND PAYABLE BY THE 10TH OF THE MONTH FOLLOWING THE DATE OF PURCHASE. A 1% DISCOUNT IS ALLOWED IF ALL PRIOR INVOICES ARE PAID IN FULL. A 1.5% PER MONTH FINANCE CHARGE WILL BE ASSESSED ON ALL OPEN BALANCES AS OF THE 30TH OF THE MONTH FOLLOWING DELIVERY AND CALCULATED BASED ON THE INVOICE DUE DATE. IN ADDITION, I AGREE TO PAY FEES IN THE AMOUNT OF 33.33% IF PLACED IN THE HANDS OF AN AGENCY/ATTORNEY FOR COLLECTION.

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE.

LOAD RECEIVED BY

X *Bill Huffman*

DATE	CUSTOMER #	ORDER#	TRUCK#	DRIVER	PURCHASE ORDER #
Apr 11, 2006	132	3000	FLA, CU	James Buio	904-635-6702
SOLD TO: COD MURPHY PIPE LINE					ORDERED FOR
PROJECT: _____					USE
DELIVERY ADDRESS: _____					SLUMP
INSTRUCTIONS: 6.5 YARD LOADS					5

LOAD QUANTITY	CUMULATIVE QUANTITY	ORDERED QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION	UNIT PRICE	AMOUNT
6.50 cy	13.00cy	13.00	3000-C-100-GROUT		132.00	858.00
			FUEL		20.00	20.00

C.O.D. NAME Bill Huffman
DL # 904-635-6702
PHONE # 3423
CK # _____
RECVD _____
LOT # _____ **Correct** **Incorrect**
Correct Lot # _____
Addition Lots Poured _____
Ticket in DOC Box **Yes** **No**

SUB TOTAL		TAX		TOTAL		RUNNING TOTAL	
878.00		61.46		939.46		1878.92	
LOAD TIME	TO JOB	ARRIVE JOB SITE	BEGIN POUR	FINISH POUR	LEAVE JOB SITE	ARRIVE PLANT	TAX
							PAY THIS AMOUNT ▶



S&W Materials, Inc.

10417 Alta Drive
Jacksonville, FL 32226
phone (904) 757-2222

S&W Materials, Inc.

1219 Clear Hall Lane
Green Cove Springs, FL 32043
phone (904) 269-4757

S&W Materials, Inc.

900 US Hwy 301 N.
Baldwin, FL 32234
phone (904) 266-3041

3 349109

WARNING

IRRITATING TO THE SKIN AND EYES

Contains Portland Cement. Wear rubber boots and gloves. **PROLONGED CONTACT MAY CAUSE BURNS.** Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. **KEEP CHILDREN AWAY.**

Water added on job _____ gals.
Water requested by _____

CONCRETE received and WATER added at the request of the customer subject to conditions of sale and delivery on reverse side.

PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE.)
Dear Customer - the owner of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and this supplier from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.
SIGNED:

X _____

ALL INVOICES ARE DUE AND PAYABLE BY THE 10th OF THE MONTH FOLLOWING THE DATE OF PURCHASE. A 1% DISCOUNT IS ALLOWED IF ALL PRIOR INVOICES ARE PAID IN FULL. A 1.5% PER MONTH FINANCE CHARGE WILL BE ASSESSED ON ALL OPEN BALANCES AS OF THE 30th OF THE MONTH FOLLOWING DELIVERY AND CALCULATED BASED ON THE INVOICE DUE DATE. IN ADDITION, I AGREE TO PAY FEES IN THE AMOUNT OF 33.33% IF PLACED IN THE HANDS OF AN AGENCY/ATTORNEY FOR COLLECTION.

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE.

LOAD RECEIVED BY

X Bill Huffman

DATE	CUSTOMER #	ORDER#	TRUCK#	DRIVER	PURCHASE ORDER #
Apr 11, 2006	132	3000	67	JEFFERSON,	904-635-6702
SOLD TO: COD MURPHY PIPE LINE					ORDERED FOR
PROJECT: _____					USE
DELIVERY ADDRESS: MIL FIELD AVIATION AVE					SLUMP
INSTRUCTIONS: 6.5 YARD LOADS					

LOAD QUANTITY	CUMULATIVE QUANTITY	ORDERED QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION	UNIT PRICE	AMOUNT
4.00 cy	17.00cy	17.00	2	3000-C-100-GROUT	132.00	528.00
1.00 ea	1.00ea	1.00	0015	FUEL	20.00	20.00
				DELIVERY CHARGE	150.00	150.00
<p>2625.78 - 1878.92 = \$ 746.86</p> <p>LOT # Correct <input checked="" type="checkbox"/> Incorrect <input type="checkbox"/></p> <p>Correct Lot # _____</p> <p>Addition Lots Poured _____</p> <p>Ticket in DOC Box Yes No</p> <p>C.O.D. 904-633-6702 NAME _____ DL # _____ PHONE # _____ OK # _____ REC'D _____</p>						

SUB TOTAL		TAX		TOTAL		RUNNING TOTAL	
698.00		48.86		746.86		2625.78	
LOAD TIME	TO JOB	ARRIVE JOB SITE	BEGIN POUR	FINISH POUR	LEAVE JOB SITE	ARRIVE PLANT	TAX
							PAY THIS AMOUNT ▶

Appendix F

Waste Disposal Documentation

Transportation and Disposal Log
 High Speed Refuelers Removal and Pipeline Piggings
 Former Naval Air Station Cecil Field, Jacksonville, Florida

CTO No	Project No	Project Name	Site Description	Container Type	Container Design	Waste Profile Sample No	Contractor	Transporter	Date Transported	Transporter EPA ID	Load ID	Disposal Facility	Disp Fac EPA ID	Media	Waste Type (Haz, Nonhaz, TSCA)	Waste Code/ Haz Waste No	Disposal Date	Manifest Number	Disposal Treatment Method (Enter disposal quantity under appropriate method)					Certif of Disp/ Destruc Date	Comments/ Notes	File Status (see note)
																			Incineration	Recycle	Landfill	Other	Unit			
0057	263231	NAS Cecil Field	HSRs	55-gal Drum	Not Applicable	Not Applicable	CH2M HILL	ERS	21-Feb-06	FLD984261412	1	IWS	FLD981928484	JP-5/PCW	Non-Haz	Not Applicable	13-Mar-06	61006		40			GAL	14-Mar-06		Complete
0057	263231	NAS Cecil Field	HSRs	55-gal Drum	Not Applicable	Not Applicable	CH2M HILL	ERS	21-Feb-06	FLD984261412	2	WM-Chesser Island Rd. Landfill	024-0006D	JP-5/ Waste Absorbent	Non-Haz	Not Applicable	22-Feb-06	61005			600		LBS	22-Feb-06		Complete
0057	263231	NAS Cecil Field	HSRs	55-gal Drum	Not Applicable	Not Applicable	CH2M HILL	ERS	2-May-06	FLD984261412	3	WM-Chesser Island Rd. Landfill	024-0006D	JP-5/ Waste Absorbent	Non-Haz	Not Applicable	23-May-06	61018			100		LBS	23-May-06		Complete



MATERIAL PROFILE FORM

JACKSONVILLE (904) 354 - 0372 FAX: (904) 353 - 4033
 MOBILE (251) 694 - 7500 FAX: (251) 694 - 7508
 CHICAGO (773) 646 - 9700 FAX: (773) 646 - 9730

Generator Name	<u>NAS Jacksonville Public Works Center</u>	Customer Name	<u>ERS</u>
City / State	<u>Box 30, Code 331, Jacksonville, FL 32217</u>	Customer Address	<u>760 Talleyrand Avenue</u>
SIC / NAICS Code	_____	City / State / Zip	<u>Jacksonville, Florida 32202</u>
IL EPA ID #	_____	Phone #	<u>904/791-9992</u>
Name of material	<u>Jet Fuel # 5</u>	Fax #	<u>904/791-9833</u>
Gallons	<u>55</u>	Frequency	<u>one time</u>
Process generating waste	<u>Waste petroleum jet fuel # 5. generated from dismantling of high speed refueling stations</u>		

QUESTIONNAIRE Used Oil Petroleum Contact Water Virgin Product Nonhazardous Waste
 (check one)

- Is the waste hazardous by:

Ignitability?	_____	Yes	<u>X</u> No
Corrosivity?	_____	Yes	<u>X</u> No
Reactivity?	_____	Yes	<u>X</u> No
- Does the waste contain:

Herbicides, pesticides, insecticides?	_____	Yes	<u>X</u> No
Dioxins?	_____	Yes	<u>X</u> No
Radioactive substances?	_____	Yes	<u>X</u> No
Domestic wastes?	_____	Yes	<u>X</u> No
Biohazardous materials?	_____	Yes	<u>X</u> No
- Is this a hazardous waste (F, K, U, or P listed) as defined by 40 CFR 261 Subpart D?
 If yes to the above, identify the listing. _____
 _____ Yes X No
- Is the waste derived from outside an underground storage tank (UST)?
 _____ Yes X No
- If waste is derived from a fuel, is the fuel leaded?
 _____ Yes X No

CONSTITUENTS

Does the waste contain any constituents listed in the table below? ___ Yes X No If yes, indicate the level present.
 How was the level determined? X Generator Knowledge ___ Total laboratory analysis ___ TCLP Laboratory analysis

**** See attached waste analysis for actual concentrations.**

EPA #	Contaminant	Actual level (ppm)	EPA #	Contaminant	Actual level (ppm)
D004	ARSENIC	_____	D032	HEXACHLOROBENZENE	_____
D005	BARIUM	_____	D033	HEXACHLOROBUTADIENE	_____
D018	BENZENE	_____	D034	HEXACHLOROETHANE	_____
D006	CADMIUM	_____	D008	LEAD	_____
D019	CARBON TETRACHLORIDE	_____	D013	LINDANE	_____
D020	CHLORDANE	_____	D009	MERCURY	_____
D021	CHLOROBENZENE	_____	D014	METHOXYCHLOR	_____
D022	CHLOROFORM	_____	D035	METHYL ETHYL KETONE	_____
D007	CHROMIUM	_____	D036	NITROBENZENE	_____
D024	CRESOL (M)	_____	D037	PENTACHLOROPHENOL	_____
D023	CRESOL (O)	_____	D038	PYRIDINE	_____
D025	CRESOL (P)	_____	D010	SELENIUM	_____
D026	CRESOL	_____	D011	SILVER	_____
D016	2,4-D	_____	D039	TETRACHLOROETHYLENE	_____
D027	1,4-DICHLOROBENZENE	_____	D015	TOXAPHENE	_____
D028	1,2-DICHLOROETHANE	_____	D040	TRICHLOROETHYLENE	_____
D029	1,1-DICHLOROETHYLENE	_____	D041	2,4,5-TRICHLOROPHENOL	_____
D030	2,4-DINITROTOLUENE	_____	D042	2,4,6-TRICHLOROPHENOL	_____
D012	ENDRIN	_____	D017	2,4,5-TP (SILVEX)	_____
D031	HEPTACHLOR	_____	D043	VINYL CHLORIDE	_____

CONSTITUENTS (continued)

(page 2)

Contaminant	Actual level (ppm)	Contaminant	Actual level (ppm)
ANTIMONY	_____	bis 2-ETHYL HEXYL PHTHALATE	_____
COBALT	_____	CARBAZOLE	_____
COPPER	_____	n-DECANE	_____
MOLYBDENUM	_____	2,3-DICHLOROANILINE	_____
NICKEL	_____	FLUORANTHENE	_____
TIN	_____	n-OCTADECANE	_____
TITANIUM	_____	PCB's	___ less than 2 mg/L ___ greater than 2 mg/L
VANADIUM	_____	CYANIDES	___ less than 2 mg/L ___ greater than 2 mg/L
ZINC	_____	SULFIDES	___ less than 2 mg/L ___ greater than 2 mg/L

PHYSICAL CHARACTERISTICS

Color clear to brown Odor? No Yes If yes, describe petroleum

pH 7 Flash Point (°F) 140 Total Suspended Solids (%) _____

Total Organic Halogens X less than 1,000 mg/L ___ greater than 1,000 mg/L actual level _____ mg/L

Physical state: ___ solid X liquid ___ semi-solid ___ powder

Layers: X single phase ___ multi-layered ___ bi-layered

Viscosity: ___ very thin x thin ___ moderate ___ thick ___ does not pour

REPRESENTATIVE SAMPLE CERTIFICATION

Sample source _____ Sample date _____

Sampler name _____ Title _____

Sampler employer (if other than generator): _____
The sampler's signature certifies that any sample submitted is representative of the material described above pursuant to 40 CFR 261.20 (c) or equivalent rules.

Sampler signature _____

GENERATOR CERTIFICATION

By signing this profile, you certify that:

1. You are the generator or the duly authorized representative of the generator.
2. This waste is not a hazardous waste as defined by USEPA Federal Regulation, unless noted above.
3. This waste does not contain regulated materials or regulated concentrations of PCB's (polychlorinated biphenyls).
4. This sheet contains true and accurate descriptions of the material and all relevant information in your possession regarding known or suspected hazards have been disclosed.
5. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 (c) or equivalent rules.
6. If any changes occur in the character of the material, you will notify the Contractor prior to the Contractor removing the material.
7. If the material is PCW, there are no hazardous constituents above those found in the source of the PCW.

Generator Signature _____ Date _____

Printed Name _____

Title _____

CONSTITUENTS (continued)

(page 2)

Contaminant	Actual level (ppm)	Contaminant	Actual level (ppm)
ANTIMONY	_____	bis 2-ETHYL HEXYL PHTHALATE	_____
COBALT	_____	CARBAZOLE	_____
COPPER	_____	n-DECANE	_____
MOLYBDENUM	_____	2,3-DICHLOROANILINE	_____
NICKEL	_____	FLUORANTHENE	_____
TIN	_____	n-OCTADECANE	_____
TITANIUM	_____	PCB's	_____ less than 2 mg/L _____ greater than 2 mg/L
VANADIUM	_____	CYANIDES	_____ less than 2 mg/L _____ greater than 2 mg/L
ZINC	_____	SULFIDES	_____ less than 2 mg/L _____ greater than 2 mg/L

PHYSICAL CHARACTERISTICS

Color clear to brown Odor? No Yes If yes, describe petroleum

pH 7 Flash Point (°F) 140 Total Suspended Solids (%) _____

Total Organic Halogens X less than 1,000 mg/L _____ greater than 1,000 mg/L actual level _____ mg/L

Physical state: _____ solid X liquid _____ semi-solid _____ powder

Layers: X single phase _____ multi-layered _____ bi-layered

Viscosity: _____ very thin x thin _____ moderate _____ thick _____ does not pour

REPRESENTATIVE SAMPLE CERTIFICATION

Sample source _____ Sample date _____

Sampler name _____ Title _____

Sampler employer (if other than generator): _____

The sampler's signature certifies that any sample submitted is representative of the material described above pursuant to 40 CFR 261.20 (c) or equivalent rules.

Sampler signature _____

GENERATOR CERTIFICATION

- By signing this profile, you certify that:
1. You are the generator or the duly authorized representative of the generator.
 2. This waste is not a hazardous waste as defined by USEPA Federal Regulation, unless noted above.
 3. This waste does not contain regulated materials or regulated concentrations of PCB's (polychlorinated biphenyls).
 4. This sheet contains true and accurate descriptions of the material and all relevant information in your possession regarding known or suspected hazards have been disclosed.
 5. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 (c) or equivalent rules.
 6. If any changes occur in the character of the material, you will notify the Contractor prior to the Contractor removing the material.
 7. If the material is PCW, there are no hazardous constituents above those found in the source of the PCW.

Generator Signature [Signature] Date 2-15-06

Printed Name John Brummett

Title Env. Protection Specialist



GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Service Agreement on File? YES NO

Profile Number: _____

Hazardous Non-Hazardous TSCA

Renewal Date _____

A. Waste Generator Information

1. Generator Name:	<u>NAS Cecil Field, Public Works Center</u>	2. SIC Code	_____
3. Facility Street Address:	<u>P.O. Box 30, Code, 331</u>	4. Phone	<u>(904)777-4812</u>
5. Facility City:	<u>Jacksonville</u>	6. State/Province:	<u>Florida</u>
7. Zip/Postal Code:	<u>32313</u>	8. Generator USEPA/FED ID #:	<u>Not Required</u>
9. County:	<u>Duval</u>	10. State/Province ID#:	_____
11. Customer Name:	<u>Environmental Remediation Services, Inc.</u>	12. Customer Phone::	<u>(904)791-9992</u>
13. Customer Contact:	<u>Charlie Owens</u>	14. Customer Fax:	<u>(904)791-9833</u>
15. Billing Address	<u>760 Talleyrand Avenue; Jacksonville, FL 32202</u>		

Same as above

B. Waste Stream Information

1. DESCRIPTION

a. Name of Waste: Waste absorbents/JP 5 oil

b. Processing Generating Waste: Cleanup of JP5 oil spill.

c. Color	d. Strong odor (describe)	e. Physical state @ 70°F	f. Layers	g. Free liquid range to NA %
Various	Slight petroleum odor	<input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Sludge <input type="checkbox"/> Other _____	<input checked="" type="checkbox"/> Single Layer <input type="checkbox"/> Multi-Layer	h. pH: Range NA

l. Liquid Flash Point: <73°F 73-99°F 100-139°F 140-199°F ≥ 200°F Not Applicable

j. Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis):

Constituents	Concentration Range	Constituents	Concentration Range
Please see attached MSDS.			
Absorbent pads	95-100%		
JP 5 Oil	0-5%		

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

- k. Oxidizer Pyrophoric Explosive Radioactive
 Carcinogen Infectious Shock Sensitive Water Reactive
- l. Does the waste represented by this profile contain any of the carcinogens which require OSHA Notification? (list in Section B.1.j)..... YES NO
- m. Does the waste represented by this profile contain dioxins? (list in B.1.j)..... YES NO
- n. Does the waste represented by this profile contain asbestos?..... YES NO
 If yes..... friable non-friable
- o. Does the waste represented by this profile contain benzene..... YES NO
 If yes, concentration _____ Ppm
 Is the waste subject to benzene waste operations NESHAP?..... YES NO
- p. Is the waste subject to RCRA Subpart CC controls..... YES NO
 If no, does the waste meet the organic LDR Exemption:..... YES NO
 If no, does the waste contain <500 ppmw volatile organic (VOC's)?..... YES NO
 Volatile organic concentration _____ ppmw
- q. Does the waste contain any Class I or Class II ozone-depleting substance?..... YES NO
- r. Does the waste contain debris? (list in Section B.1.j)..... YES NO
- s. Is the waste subject to controls as a Group 1 wastewater or residual under the HON?..... YES NO
 If yes, is it a Table 8 _____ or Table 9 _____ Compound?

2. Quantity of Waste

Estimated Annual Volume Two (2) 55 gallon drums Tons Yards Drums Other (specify) _____

3. Shipping Information

- a. Packaging:
 Bulk Solid; Type/Size: _____ Bulk Liquid, Type/Size _____
 Drum; Type/Size: 55 gallon Other: _____
- b. Shipping Frequency: Units _____ Per: Month Quarter Year One Time Other _____
- c. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip d, e and f)..... YES NO



GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

d. Reportable Quantity (lbs.; kgs.): _____ e. Hazard Class/ID#: _____
f. USDOT Shipping Name: _____
g. Personal Protective Equipment Requirements: _____
h. Transporter/Transfer Station: _____

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

- 1. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2..... YES NO
 - a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U) _____
 - b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply? (if yes, list in Section.B.1.j)..... YES NO
 - c. Does this waste contain debris? (if yes, list size and type in Chemical Composition - B.1.)..... YES NO
- 2. Is the waste from a soil remediation project?..... YES NO
 - a. Will the Alternative Soil treatment Standards to be invoked?..... YES NO
 - b. Do underlying hazardous constituents apply? (If yes, list in Section B.1.j)..... YES NO
- 3. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up?..... YES NO
If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up for activity. For state mandated clean-up, provide relevant documentation.
- 4. Does the waste represented by this waste profile sheet contain radioactive material?..... YES NO
 - a. Is disposal regulated by the Nuclear Regulatory Commission?..... YES NO
 - b. If NORM, identify isotopes and concentration, pCi/g _____ YES NO
- 5. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (if yes, list in Chemical Composition - B.1.j)..... YES NO
 - a. Were the PCBs imported into the U.S.?..... YES NO
 - b. Are PCBs regulated under the "Self-Implementing Remediation (Mega) Rule?"..... YES NO
- 6. Do the waste profile sheet and all the attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor?..... YES NO
- 7. Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor?..... YES NO

Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Certification Signature: _____ Title: _____

Name (Type or Print) _____ Company Name _____ Date: _____

Check if additional information is attached. Indicate the number of attached pages. 4

MSDS attached.

D. WMI Management's Decision **FOR WMI USE ONLY**

1.	Management Method	<input type="checkbox"/> Landfill	<input type="checkbox"/> Non-hazardous Solidification	<input type="checkbox"/> Bioremediation	<input type="checkbox"/> Incineration
		<input type="checkbox"/> Hazardous Stabilization	<input type="checkbox"/> Other (Specify) _____		
2.	Proposed Ultimate Management Facility: _____				
3.	Precautions, Special Handling Procedures, or Limitation on Approval _____				
4.	Waste Form: _____	5.	Source _____	6.	System Type _____
Special Waste Decision.....				<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
Salesperson's Signature: _____				Date:	_____
Division Approval Signature (Optional): _____				Date:	_____
Special Waste Approvals Person Signature _____				Date:	_____



GENERATOR'S WASTE PROFILE SHEET
PLEASE PRINT IN INK OR TYPE

d. Reportable Quantity (lbs., kgs.):
e. Hazard Class/ID#:
f. USDOT Shipping Name:
g. Personal Protective Equipment Requirements:
h. Transporter/Transfer Station:

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

- 1. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2.
a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U)
b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply?
c. Does this waste contain debris?
2. Is the waste from a soil remediation project?
a. Will the Alternative Soil treatment Standards to be invoked?
b. Do underlying hazardous constituents apply?
3. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up?
4. Does the waste represented by this waste profile sheet contain radioactive material?
a. Is disposal regulated by the Nuclear Regulatory Commission?
b. If NORM, identify isotopes and concentration, pCi/g
5. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761?
a. Were the PCBs imported into the U.S.?
b. Are PCBs regulated under the "Self-Implementing Remediation (Mega) Rule"?
6. Do the waste profile sheet and all the attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor?
7. Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor?

Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Certification Signature: [Signature] Title: [Signature]
Name (Type or Print) JOHN BRUMMITT Company Name NAVY PWC JAX Date: 2-15-06

Check if additional information is attached. Indicate the number of attached pages, 4

MSDS attached.

D. WMI Management's Decision FOR WMI USE ONLY

1. Management Method [] Landfill [] Non-hazardous Solidification [] Bioremediation [] Incineration
[] Hazardous Stabilization [] Other (Specify)
2. Proposed Ultimate Management Facility:
3. Precautions, Special Handling Procedures, or Limitation on Approval
4. Waste Form: 5. Source: 6. System Type
Special Waste Decision [] Approved [] Disapproved
Salesperson's Signature: Date:
Division Approval Signature (Optional): Date:
Special Waste Approvals Person Signature Date:

GENERATOR'S WASTE PROFILE SHEET
PLEASE PRINT IN INK OR TYPE

Information on this form is used to determine if the waste may be transported, treated, stored or disposed in a legal, safe, and environmentally sound manner. This information will be maintained in strict confidence. Answers must be provided for sections A, B, and C and must be printed in ink or typed. A response of "NONE" or "NA" (not applicable) can be made if appropriate. If additional space is needed, indicate on the form that additional information is attached, and attach the information to Generator's Waste Profile Sheet. If you have questions concerning this form, please contact the Contractor's sales representative.

A. Waste Generator Information

1. **Generator Name** - Enter the name of the facility where the waste is generated.
2. **SIC Code** - Enter the four digit Standard Industrial Classification Code for the facility where the waste is generated.
3. **Facility Street Address** - Enter the street address (not P.O. Box) of the facility where the waste is generated.
4. **Phone** - Enter Generator's area code and phone number.
5. **Facility City** - Enter the city where the waste is generated.
6. **State/Province** - Enter the state or province where the waste is generated.
7. **Zip/Postal Code** - Enter the generating facility's zip or postal code.
8. **Generator USEPA/FEDERAL ID #** - Enter the identification number issued by the USEPA, Canadian, or Mexican Federal Agency to the facility generating the waste(if applicable).
9. **County** - Enter the county where the waste is generated.
10. **State/Province ID#** - Enter the identification number issued by the state or province to the facility generating the waste (if applicable).
11. **Customer Name** - Entity that the Contractor is directly working with regarding the represented waste stream. If the same as the Generator, mark "Same as Above".
12. **Customer Phone** - Enter technical contact's area code and telephone number.
13. **Customer Contact** - Enter the name of the person who can answer technical questions about the waste.
14. **Customer Fax** - Area code and facsimile number for the customer.
15. **Billing Address** - Address where bill for services should be sent.

B. Waste Stream Information

- 1.a. **Name of Waste** - Enter a name generally descriptive of this waste (e.g., paint sludge, fluorescent bulbs).
- 1.b. **Process Generating Waste** - Describe the process generating the waste in detail. List the specific process/operation or source that generates the waste (e.g., incineration of municipal refuse, asbestos removal, wastewater treatment, building maintenance).
At a minimum, the Generator should answer the following questions in determining the process generating the waste.
 - What chemicals are stored and/or used at the facility?
 - Is the waste generated from the production /manufacturing of any of the following industries: wood preservation; inorganic pigments; organic pigments; pesticides; explosives; petroleum refining; iron and steel, copper, lead or zinc production?
 - Is the waste a result from degreasing, solvent parts cleaning, recovery/reclaiming of solvents (bottoms), waste water treatment (sludges), or electroplating?
- 1.c. **Color** - Describe the color of the waste (e.g., blue, transparent, varies).
- 1.d. **Strong odor** - **DO NOT SMELL THE WASTE!** If the waste has a known odor, then describe (e.g., acrid, pungent, solvent, sweet.).
- 1.e. **Physical state @ 70°F** - If the four boxes provided do not apply, a descriptive phrase may be entered after "Other" e.g., multi-phase).
- 1.f. **Layers** - Single Layers means the waste is homogenous. Multi-layer means the waste is comprised of two or more layers (e.g., oil/water/sludge).
- 1.g. **Free liquid range** - Range (in percent by volume) of free liquids in the waste.
- 1.h. **pH Range** - Indicate the pH range.
- 1.i. **Liquid Flash Point** - Indicate the flash point obtained using the appropriate test method.
- 1.j. **Chemical Composition** - List all organic and/or inorganic components of the waste using chemical names. If trade names are used, attach Material Safety Data Sheets or other documents that adequately describe the composition of the waste. For each component, estimate the range (in percent) in which the component is present.
- 1.k. Check all that apply.
 - 1.l. Identify any element, chemical compound, or mixture in concentration of 0.1 percent or greater that is considered a carcinogen or potential carcinogen pursuant to OSHA.
 - 1.m. Indicate if the waste contains any dioxins (list in Section B.1.j)
 - 1.n. Indicate if the waste contains asbestos. Indicate if the asbestos is friable.
 - 1.o. Indicate if the waste contains benzene, the level in ppm, and whether it is subject to the benzene NESHAP.
 - 1.p. Indicate if the waste is subject to RCRA Subpart CC. Also, indicate whether the waste meets the organic LDR Exemption or contains less than 500 ppmw Volatile Organic (VO). Indicate the VO concentration, if known, in parts per million weight.
 - 1.q. Indicate if the waste contains any Class I or Class II ozone-depleting controlled substances.
 - 1.r. Indicate if the waste contains debris (list size and type in B.1.j.)
 - 1.s. Indicate if the wastewater or residual is subject to 40 CFR Part 63 subpart G controls. If yes, indicate if it is a Table 8 or Table 9 compound.
2. **Quantity of Waste** - Approximate volume in tons, yards, or other (e.g., drums, gallons) that will be received by the ultimate management facility. This volume amount is not intended for use in complying with state and/or permit restrictions.
- 3.a. **Packaging** - Choose the appropriate option or "other" along with a description.
- 3.b. **Shipping Frequency** - Choose the appropriate option or "other" along with a description.
- 3.c. **Is this a U.S. Department of Transportation (USDOT) hazardous material?** - Choose the appropriate response: yes or no.

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

- 3.d. **Reportable quantity (lbs.; kgs.)** If the answer to 3.c. is yes, enter the Reportable quantity (RQ) established by 40 CFR 302.4 or equivalent Canadian or Mexican regulation for this waste. Indicate the appropriate units for the RQ.
- 3.e. **Hazard Class/ID #** - If the answer to 3.c. is yes, indicate the proper USDOT hazard class and identification number.
- 3.f. **USDOT Shipping Name** - IF the answer to 3.c. is yes, enter the proper USDOT shipping name for the waste.
- 3.g. **Personal Protective Equipment Requirements** - All personal protective equipment necessary to safely manage the waste stream.
- 3.h. **Transporter/Transfer Station** – Transporter and/or transfer station name.

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

Indicate the appropriate response to questions/statements 1, 2, 3, 4, 5, 6, and 7. By signing this Generator's Waste Profile Sheet, the Generator certifies the responses are true and accurate with respect to the waste stream(s) listed.

Certification Signature - Signature of an authorized employee of the Generator or representative of the generator if authorized in writing by the generator.

Title - Enter Employee's title.

Name - Type or Print Employee's name.

Company Name - Company employing the person certifying the Generator's Waste Profile Sheet.

Date - Enter the date this Generator's Waste Profile Sheet is signed.

D. WMI Management's Decision

FOR WMI USE ONLY

To be completed by WMI.

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

FL 6170022474

Manifest Document No.

61006

2. Page 1 of 1

3. Generator's Name and Mailing Address

NAS Cecil Field, Public Works Center
P.O. Box 30, Code 331 Jacksonville FL 32313

4. Generator's Phone (904) 777-4812

Cecil Field

5. Transporter 1 Company Name

Environmental Remediation Svc.

6. US EPA ID Number

FLD984261412

A. Transporter's Phone

904/791-9992

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Industrial Water Services
1640 Talleyrand Ave.
Jacksonville, Florida 32206

10. US EPA ID Number

FLD981928484

C. Facility's Phone

904/354-0372

11. Waste Shipping Name and Description

a. Petroleum Contact Water (JP5 fuel)

12. Containers No. Type

001
002 DM

13. Total Quantity

00040

14. Unit Wt/Vol

G.

b. N/A

c. N/A

d. This PCW does not contain levels of hazardous constituents Above those found in the source of the PCW.

D. Additional Descriptions for Materials Listed Above

N/A

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

ERS Manifest Number: 06097
ERS Job Number: 6054
IWS Approval Number: 025602

Copy For File

For Emergencies Call: Environmental Remediation Services 904-791-9992
C/O-0057 project NO. 263231

605401

BY: BJ

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

John Brummett

Signature

[Signature]

Month Day Year

02 21 06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

John S. Carter

Signature

[Signature]

Month Day Year

02 21 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

[Signature]

Signature

[Signature]

Month Day Year

03 13 06

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. FL517.0.072.4.74	Manifest Document No. 61.005	2. Page 1 of
3. Generator's Name and Mailing Address NAS Cecil Field, Public Works Center, P.O. Box 30, Code 331 Jacksonville FL. 32313.		NAS Cecil Field		
4. Generator's Phone (904) 777-4812				
5. Transporter 1 Company Name Environmental Remediation Svc.	6. US EPA ID Number F.L.D. 9.8.4.2.6.1.4.1.2	A. Transporter's Phone 904/791-9992		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address Chesser Island Landfill Hwy 121 South Folkston, Georgia 31537		10. US EPA ID Number Not Required	C. Facility's Phone 912/496-7918	
11. Waste Shipping Name and Description		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. Waste absorbents / JP 50il.			0.02 DM 006.00	P
b. NA				
c. NA				
d. NA				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
ERS Manifest Number: 06099 ERS Job Number: 6054 In case of emergency please call : ERS 904-791-9992 CTO-0038 PROJECT # 203231 WM Approval # 06099 For file 605401 BY: <i>[Signature]</i>				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name John Brummatt		Signature <i>[Signature]</i>		Month Day Year 02/21/06
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name John S. Carter		Signature <i>[Signature]</i>		Month Day Year 02/21/06
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name P. Bernard		Signature <i>[Signature]</i>		Month Day Year 02/21/06

GENERATOR

TRANSPORTER

FACILITY



Corporate Office

1010 East Adams St. • Jacksonville, FL 32202
P.O. Box 43369 • Jacksonville, FL 32203
Phone: (904) 354-0372 • (800) 447-3592
Fax: (904) 350-1313 • www.iwsww.com

CERTIFICATE OF COMPLIANCE AND DISPOSAL

Generator: NAS Cecil Field Public Works Center
Site Location: Jacksonville, FL
Manifest Number 06097

This certifies that on the 13th of February 2006; 40 gallons (1drum) of Petroleum Contact Water (JPS fuel) was disposed of and/or recycled in compliance with all applicable state, federal and local regulations under Industrial User Permit Number ISN 019.

Facility Name: Industrial Water Services, Inc.

Facility Address: 1640 Talleyrand Avenue
Jacksonville, FL

Facility EPA ID#: FLD 981 928 484

Certified By: Lynn Carter

Signature: *Lynn Carter*

Date: March 14, 2006



CERTIFICATE OF DISPOSAL

This is to document the disposition of waste material(s) removed from your facility located at:

NAS CECIL FIELD PUBLIC WORKS CENTER JACKSONVILLE, FL 32313

Charged to: **ENVIRONMENTAL REMEDIATION SERVICE**

The waste material(s) consisted of

a) WASTE ABSORBENTS/ JP 5 OIL

A. The waste material(s) were transported by:

1st Company: ENVIRONMENTAL REMEDIATION SERVICE

The waste material(s) were disposed of at:

Facility: Chesser Island Road Landfill (Solid Waste Handling Permit #024-006 D (SL))

Address: P.O. Box 128, Highway 121 @ Chesser Island Road
Folkston, GA 31537-0128

B. Disposal of your waste material(s) was accomplished by the following method(s):

a) Subtitle-D Landfill, immediately compacted and covered in accordance with all permit regulations

C. Date of Disposal: 02/22/06

D. TICKET NUMBER: 079441


Linda J. Hair, Office Manager

Chesser Island Road Landfill
P.O. Box 128, Hwy 121 @Chesser Island Rd
Folkston, Ga 31537
912/496-7918

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. FL 5170022474 <small>NOT Required</small>	Manifest Document No. 06240	2. Page 1 of 1
3. Generator's Name and Mailing Address NAS COOK FIELD, PUBLIC WORKS CENTER PO BOX 30, COAR 331 JACKSONVILLE FL 32213		6. US EPA ID Number 61018		
4. Generator's Phone (904) 777-4812		A. Transporter's Phone		
5. Transporter 1 Company Name	6. US EPA ID Number	B. Transporter's Phone		
7. Transporter 2 Company Name Environmental Remediation Svc.	8. US EPA ID Number FLD984261412	B. Transporter's Phone 904/791-9992		
9. Designated Facility Name and Site Address Chesser Island Landfill Hwy 121 South Folkston, Georgia 31537		10. US EPA ID Number Not Required	C. Facility's Phone 912/496-7918	
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. WASTE ABSORBENTS / JP-5 OIL		No. 001	Type d.m.	00100 P
b. NA				
c. NA				
d. NA				
D. Additional Descriptions for Materials Listed Above		E. Handling Code for Wastes Listed Above 605402		
15. Special Handling Instructions and Additional Information ERS Manifest Number: 06240 ERS Job Number: 6054 WM Approval VC 8921 In case of emergency please call: ERS 904-791-9992				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Wayne C. Hagwood		Signature <i>Wayne C. Hagwood</i>		Month Day Year 05 02 06
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Patrick Shipman		Signature <i>Patrick Shipman</i>		Month Day Year 05 02 06
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Barnard		Signature <i>Barnard</i>		Month Day Year 05 05 06

GENERATOR

TRANSPORTER

FACILITY



CERTIFICATE OF DISPOSAL

This is to document the disposition of waste material(s) removed from your facility located at:

NAS CECIL FIELD, PUBLIC WORKS CENTER; PROFILE # VC8921

Charged to: ENVIRONMENTAL REMEDIATION SERVICES (ERS)

The waste material(s) consisted of

a) WASTE ABSORBENTS/JP 5 OIL - CLEANUP OF SPILL

A. The waste material(s) were transported by:

1st Company: ENVIRONMENTAL REMEDIATION SERVICES, INC.

The waste material(s) were disposed of at:

Facility: Chesser Island Road Landfill (Solid Waste Handling Permit #024-006 D (SL))
Address: P.O. Box 128, Highway 121 @ Chesser Island Road
Folkston, GA 31537-0128

B. Disposal of your waste material(s) was accomplished by the following method(s):

a) Subtitle-D Landfill, immediately compacted and covered in accordance with all permit regulations

C. Date of Disposal: MAY 23, 2006

D. Tons Disposed: 1 DRUM

Linda J. Hair 6/27/06
Linda J. Hair, Office Manager

Chesser Island Road Landfill
P.O. Box 128, Hwy 121 @Chesser Island Rd
Folkston, Ga 31537
912/496-7918

TRAIL RIDGE LANDFILL ID: JUN 27 '06 9:45 No.014 P.02