



**YUKON-KOYUKUK SCHOOL DISTRICT
MINTO SCHOOL FUEL STORAGE FACILITY
MINTO, ALASKA**

**SPILL PREVENTION, CONTROL AND
COUNTERMEASURE PLAN**

AMENDED JULY 2013

EMERGENCY AND SPILL RESPONSE CONTACTS

Local Emergency:

Fire/Rescue (Volunteer)		907-798-7112
Minto Health Clinic		907-798-7412
Police	(VPSO)	907-798-7446
	(Fairbanks)	907-451-5100

Yukon Koyukuk School District:

YKSD Superintendent of Schools	907-374-9400
Minto School Principal (on-site Facility Manager)	907-798-7212

Maintenance, Training, Spill Response Contractor:

Rural Alaska Fuel Services (Anchorage Office)	907-562-0285
-----------------------------------------------	--------------

State/Federal:

Alaska Department of Environmental Conservation (ADEC) (State Spill Notification)	907-451-2121
(After hours)	800-478-9300
National Response Center (Federal Spill Notification)	800-424-8802
U.S. Environment Protection Agency (EPA Anchorage Office)	907-271-5083
U.S. Coast Guard (Sector Anchorage Office)	907-271-6700

SPCC Plan Prepared by:

PDC Inc., Engineers	907-743-3200
---------------------	--------------



**YUKON-KOYUKUK SCHOOL DISTRICT
MINTO SCHOOL FUEL STORAGE FACILITY
MINTO, ALASKA**

**SPILL PREVENTION, CONTROL AND
COUNTERMEASURE PLAN**

PREPARED BY:

**PDC INC., ENGINEERS
2700 GAMBELL STREET, SUITE 500
ANCHORAGE, ALASKA 99503
(P) 907-743-3200
(F) 907-743-3295**

July 2007

FIVE YEAR REVIEW & EVALUATION

ADMINISTRATIVE AMENDMENTS

PREPARED BY YKSD

July 2013

AMENDED PAGE #	REASON
Preface	Emergency Contacts – Replaced YKSD names with titles due to frequent turnover
1	Management Approval – Updated name, signature, confirmation of no technical changes.
4	Plan Review Log
9	Oil Spill History updated to confirm no reportable discharges from current fuel system.
13	Inspection and Testing – edited to be consistency with industry standard, Steel Tank Institute Standard SP001
3, 7, 14,15	Name, title, phone updates / clarifications
Appendix F	Emergency Contacts – Replaced YKSD title with names
Appendix H	Facility Spill Response Equipment Kit –equipment inventory at school updated and expanded to identify additional resources.

As documented on the following page, it was determined, in conjunction with PDC Engineers, the above amendments do not constitute technical changes to the facility, therefore recertification of this SPCC Plan by a Professional Engineer (PE) is not necessary.

From: Steve Theno <SteveTheno@pdceng.com>
Sent: Thursday, May 16, 2013 5:37 PM
To: JBerry@GCI.net
Cc: gbourne@yksd.com; jvail@aidea.org; Matt Emerson
Subject: RE: YKSD - PDC SPCC Plans

Hi Jim:

I discussed the items in question with Jim Vail. Jim was our Project Manager for these projects and is the Engineer who certified the subject SPCC Plans. As you know, Jim is no longer with PDC, but he was kind enough to review the issue. Jim is of the opinion that the suggested changes are administrative and do not constitute technical changes. As such the plans do not require recertification. We concur.

If there are other issues we can help you or Gale with, please do not hesitate to contact us.

Sincerely,

Steve

Steven M. Theno, PE
Principal

PDC Inc. Engineers
Planning Design Construction

2700 Gambell Street, Suite 500 | Anchorage, Alaska 99503
v 907.743.3200 | f 907.743.3295 | www.pdceng.com

"Transforming Challenges into Solutions"

From: Steve Theno
Sent: Wednesday, May 08, 2013 11:37 AM
To: JBerry@GCI.net
Cc: gbourne@yksd.com; jvail@aidea.org; Matt Emerson
Subject: RE: YKSD - PDC SPCC Plans

Hi Jim:

I am currently traveling. Will be back in office on 14th. I will need to pull the files quickly to address your questions. Hopefully that schedule works. I will be back in touch with you and Gale next week.

Sincerely,

Steve

Steve Theno, PE
Principal
PDC Inc. Engineers

From: Jim Berry [JBerry@GCI.net]
Sent: Monday, May 06, 2013 2:21 PM
To: Matt Emerson; Steve Theno
Cc: gbourne@yksd.com; jvail@aidea.org
Subject: YKSD - PDC SPCC Plans

Gentlemen:

Gale Bourne has requested I provide assistance to YKSD to update its oil spill prevention and response plans, including its SPCC Plans, Facility Response Plans, and Coast Guard Operations Manuals.

Gale provided me copies of the SPCC Plans that PDC prepared in 2007 for the schools in Allakaket, Hughes, Huslia, Manley, Minto, Nulato, and Ruby. They are well written and meet the intent of the regulations, however they are in need of the required five year review and evaluation.

Gale has confirmed there have no changes to the fuel storage at any of the above schools. Names and phone numbers in the 2007 plans need to be updated. Such changes are administrative and can be made without P.E. recertification. However, technical changes to a facility design, construction, operation, or maintenance that materially affect the potential for discharge to navigable water do require P.E. recertification, in accordance with 40 CFR 112.5(c).

Hence, the reason for this e-mail and inquiry.

In addition to name and phone updates, there are three things in the SPCC Plans that should be addressed in the review and update. They may – or may - not be considered technical. I do not want to jeopardize the validity of the existing P.E. certifications, therefore I (on behalf of YKSD) am asking PDC whether it considers the following items to be technical changes. If they are considered technical changes, I suggest PDC work directly with YKSD to make the updates. If not, I will assist with the necessary edits.

The items in question are:

1. SPCC Plan Table 3.3, Inspection and Testing Program, states containers are to be tested for integrity every five years. Based on type and storage capacities of the YKSD tanks, this appears to be in excess of what is required by the Steel Tank Institute SP-001 which is inspection standard referenced in the plans. I recommend five year integrity tests be deleted.
2. SPCC Plan Appendix H contains an inventory of response equipment to be maintained at each school. The inventory is based on the Alaska Energy Authority “standard” package for bulk fuel upgrade projects subject to FRP requirements. There are no specific equipment requirements for SPCC facilities. I recommend the listed centrifugal pump and discharge and suction hoses be removed from the equipment inventories at schools that are not subject to FRP requirements. In fact, the pumps and hose are not currently maintained at any schools.
3. YKSD has contracted Rural Alaska Fuel Services (RAFS) to provide spill prevention and response services, and compliance assistance at all schools. Services include on-site maintenance, required inspections and tests, training, and spill response as necessary. The maintenance requirements, procedures, and schedules described in the SPCC Plans will not change. RAFS should replace the “Facility Manager” (District Director of Facilities & Maintenance) as the entity responsible to perform or oversee maintenance requirements.

If PDC considers these items to be technical changes, please contact Gale to initiate efforts.

I welcome the opportunity to discuss specifics with you.

Thanks.

Jim Berry
907-345-5426

TABLE OF CONTENTS

INTRODUCTION	v
MANAGEMENT APPROVAL AND DESIGNATED PERSON	1
PROFESSIONAL ENGINEER CERTIFICATION	2
<u>1.0 PLAN ADMINISTRATION</u>	3
<u>1.1 Location of SPCC Plan (40 CFR 112.3(e))</u>	3
<u>1.2 Plan Review (40 CFR 112.3 and 112.5)</u>	3
<u>1.2.1 Changes in Facility Configuration</u>	3
<u>1.2.2 Scheduled Plan Reviews</u>	3
<u>1.2.3 Plan Review Log</u>	4
<u>1.3 Facilities, Procedures, Methods, or Equipment (40 CFR 112.7)</u>	4
<u>1.4 Cross Reference with SPCC Provisions (40 CFR 112.7)</u>	5
<u>2.0 GENERAL FACILITY INFORMATION</u>	7
<u>2.1 Facility Description (40 CFR 112.7(a)(3))</u>	7
<u>2.1.1 Location and Activities</u>	7
<u>2.1.2 Oil Storage</u>	7
<u>2.2 Evaluation of Discharge Potential</u>	8
<u>2.2.1 Distance to Navigable Waters and Adjoining Shorelines and Flow Paths</u> .	8
<u>2.2.2 Discharge History</u>	9
<u>3.0 DISCHARGE PREVENTION – GENERAL SPCC PROVISIONS</u>	10
<u>3.1 Compliance with Applicable Requirements (40 CFR 112.7(a)(2))</u>	10
<u>3.2 Facility Layout Diagram (40 CFR 112.7(a)(3))</u>	10
<u>3.3 Spill Reporting (40 CFR 112.7(a)(4))</u>	10
<u>3.4 Potential Discharge Volumes and Direction of Flow (40 CFR 112.7(b))</u>	10
<u>3.5 Containment and Diversionary Structures (40 CFR 112.7(c))</u>	13
<u>3.6 Practicability of Secondary Containment (40 CFR 112.7(d))</u>	13
<u>3.7 Inspections, Tests, and Records (40 CFR 112.7(e))</u>	13
<u>3.7.1 Daily Inspection</u>	14
<u>3.7.2 Monthly Inspection</u>	14
<u>3.7.3 Annual Inspection</u>	14
<u>3.7.4 Periodic Integrity Testing</u>	15
<u>3.8 Personnel, Training, and Discharge Prevention Procedures (40 CFR 112.7(f))</u> .	15
<u>3.9 Security (40 CFR 112.7(g))</u>	16
<u>3.10 Tank Truck Loading/Unloading Rack (40 CFR 112.7(h))</u>	16
<u>3.11 Brittle Fracture Evaluation (40 CFR 112.7(i))</u>	16
<u>3.12 Conformance with Applicable State Requirements (40 CFR 112.7(j))</u>	16

Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska

<u>4.0</u>	<u>DISCHARGE PREVENTION (SPCC Provisions for Onshore Facilities (excluding production facilities))</u>	17
<u>4.1</u>	<u>Facility Drainage (40 CFR 112.8(b))</u>	17
<u>4.2</u>	<u>Bulk Storage Containers (40 CFR 112.8(c))</u>	17
<u>4.2.1</u>	<u>Construction (40 CFR 112.8(c)(1))</u>	17
<u>4.2.2</u>	<u>Secondary Containment (40 CFR 112.8(c)(2))</u>	18
<u>4.2.3</u>	<u>Drainage of Diked Areas (40 CFR 112.8(c)(3))</u>	18
<u>4.2.4</u>	<u>Corrosion Protection (40 CFR 112.8(c)(4))</u>	18
<u>4.2.5</u>	<u>Partially Buried and Bunkered Storage Tanks (40 CFR 112.8(c)(5))</u>	18
<u>4.2.6</u>	<u>Inspections and Tests (40 CFR 112.8(c)(6))</u>	18
<u>4.2.7</u>	<u>Heating Coils (40 CFR 112.8(c)(7))</u>	18
<u>4.2.8</u>	<u>Overfill Prevention Systems (40 CFR 112.8(c)(8))</u>	18
<u>4.2.9</u>	<u>Effluent Treatment Facilities (40 CFR 112.8(c)(9))</u>	19
<u>4.2.10</u>	<u>Visible Discharges (40 CFR 112.8(c)(10))</u>	19
<u>4.2.11</u>	<u>Mobile and Portable Containers (40 CFR 112.8(c)(11))</u>	19
<u>4.3</u>	<u>Transfer Operations, Pumping, and Facility Process (40 CFR 112.8(d))</u>	19
<u>4.3.1</u>	<u>Fuel Carrier and Designated Person Responsibilities</u>	20
<u>4.3.2</u>	<u>Fuel Transfer</u>	20
<u>4.3.3</u>	<u>Contaminated Fuel</u>	20
<u>5.0</u>	<u>DISCHARGE RESPONSE (40 CFR 112.7(a)(5))</u>	21
<u>5.1</u>	<u>Response to a Minor Discharge (40 CFR 112.7(a)(3)(iv))</u>	21
<u>5.1.1</u>	<u>Minor Spill - Level 1</u>	21
<u>5.1.2</u>	<u>Minor Spill - Level 2</u>	22
<u>5.1.3</u>	<u>Minor Spill - Level 3</u>	22
<u>5.2</u>	<u>Response to a Major Discharge (40 CFR 112.7(a)(3)(iv))</u>	23
<u>5.3</u>	<u>Waste Disposal (40 CFR 112.7(a)(3)(v))</u>	23
<u>5.4</u>	<u>Notification and Reporting (40 CFR 112.7(a)(4))</u>	24
<u>5.4.1</u>	<u>Spill Notification Forms</u>	24
<u>5.4.2</u>	<u>Area Plans</u>	25

LIST OF TABLES

Table 1-1:	Plan Review Log	4
Table 1-2:	SPCC Cross Reference	5
Table 2-1:	Oil Storage Capacity	8
Table 2-2:	Oil Discharge History	9
Table 3-1:	Potential Tank Discharge Volume and Direction of Flow	11
Table 3-2:	Potential Piping Discharge Volume and Direction of Flow	12
Table 3-3:	Inspection and Testing Program.....	13
Table 4-1:	List of Oil Containers.....	17

LIST OF APPENDICES

A	Figures Figure 1: Site Location Map Figure 2: Facility Diagram Drawing C1.6 – Fuel Oil Piping Valve Diagram
B	Certification of the Applicability of the Substantial Harm Criteria
C	Facility Inspection Checklists Monthly Inspection Checklist Annual Facility Inspection Checklist
D	Record of Annual Discharge Prevention Briefings and Training
E	Records of Tank Integrity and Pressure Tests
F	Emergency Contacts Emergency Contact List Approved Discharge or Release Notification Placard
G	Alaska Department of Environmental Conservation Spill Notification Forms: Oil & Hazardous Substances Spill Notification Form Oil & Hazardous Materials Final Report Form Monthly Oil Spill Log Form
H	Facility Spill Response Material
I	Material Safety Data Sheet
J	Landfarming Information

LIST OF ACRONYMS AND ABBREVIATIONS

AAC	Alaska Administrative Code
AST	Aboveground Storage Tank
ADEC	Alaska Department of Environmental Conservation
CFR	Code of Federal Regulations
EPA	United States Environmental Protection Agency
GPM	Gallons per minute
IFC	International Fire Code
NFPA	National Fire Protection Association
PE	Professional Engineer
RA	Regional Administrator
SPCC	Spill Prevention, Control and Countermeasure
STI	Steel Tank Institute
USCG	United States Coast Guard
YKSD	Yukon-Koyukuk School District

INTRODUCTION

The purpose of this Spill Prevention, Control and Countermeasure (SPCC) Plan is to describe measures implemented by the Yukon-Koyukuk School District (YKSD) to prevent oil discharges from occurring, and to prepare YKSD Minto School personnel to respond in a safe, effective, and timely manner to mitigate the impacts of a discharge at the YKSD Minto School Tank Farm Facilities located in Minto, Alaska. A site location map (Figure 1) and Facility Diagram (Figure 2) are presented in Appendix A, along with Drawing C1.6 – Fuel Oil Piping Diagram.

The Plan has been prepared to meet the requirements of Title 40, *Code of Federal Regulations*, Part 112 (40 CFR 112), and supersedes any earlier Plan developed to meet provisions in effect since 1974.

In addition to fulfilling requirements of 40 CFR 112, this SPCC Plan is used as a reference for oil storage information and testing records, as a tool to communicate practices on preventing and responding to discharges with employees, as a guide to facility inspections, and as a resource during emergency responses.

The YKSD management has determined that this facility does not pose a risk of substantial harm under 40 CFR 112, as recorded in the *Certification of the Applicability of the Substantial Harm Criteria* included in Appendix B.

The Plan provides guidance on key actions that the YKSD Minto School must perform to comply with the SPCC rule:

- Complete monthly and annual site inspections as outlined in the Tests and Inspections section of this Plan (Section 3.7), using the inspection checklists provided in Appendix C.
- Perform preventive maintenance of equipment, secondary containment systems, and discharge prevention systems described in this Plan as needed to keep them in proper operating condition.
- Conduct annual employee training as outlined in the Personnel, Training, and Spill Prevention Procedures section of the Plan (Section 3.8) and document them in the log included in Appendix D.
- Maintain records of Tank Integrity and Pressure Tests, included in Appendix E.
- If either of the following occurs, submit the SPCC Plan to the United States Environmental Protection Agency (EPA) Alaska Regional Administrator (RA) and the Alaska Department of Environmental Conservation (ADEC), along with other information as detailed in Section 5.4 of this Plan.
 - The facility discharges more than 1,000 gallons of oil into or upon the navigable waters of the U.S. or adjoining shorelines in a single spill event; or
 - The Facility discharges oil in quantity greater than 42 gallons in each of two spill events within any 12 month period.
- Review the SPCC Plan at least once every five (5) years and amend it to include more effective prevention and control technology, if such technology will significantly reduce the likelihood of a spill event and has been proven effective in the field at the time of the review. Plan amendments, other than administrative changes, must be recertified by a Professional Engineer (PE) on the certification page on page two of this Plan.

Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska

- Amend the SPCC Plan within six (6) months whenever there is a change in facility design, construction, operation, or maintenance that materially affects the facility's spill potential. The revised Plan must be recertified by a PE.
- Review the Plan on an annual basis. Update the Plan to reflect any administrative changes that are applicable, including personnel changes, or revisions to the contact information, such as phone numbers. Administrative changes must be documented in the Plan review log on Table 1-1 of this Plan, but do not have to be certified by a PE.

**Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska**

MANAGEMENT APPROVAL AND DESIGNATED PERSON (40 CFR 112.7)

The Yukon-Koyukuk School District (YKSD) is committed to the prevention of discharges of oil to navigable waters or the environment, and maintains the highest standards for spill prevention, control and countermeasures through periodic review, updating, and implementation of this Spill Prevention Control and Countermeasure (SPCC) Plan at our Minto School. The YKSD will provide the manpower, equipment and materials required to expeditiously control and remove any quantity of oil discharged which may be harmful from the Minto School.

The School Principal is the designated person on-site to serve as Facility Manager, and is accountable for day-to-day oil spill prevention at the school / facility. The YKSD Superintendent of Schools has overall responsibility of compliance and operation of the school. The School Principal, in conjunction with the Superintendent of Schools, has the authority to commit the necessary resources to implement this Plan.

YKSD has contracted Rural Alaska Fuel Services (RAFS) to provide spill prevention, response, and compliance assistance at all its schools. RAFS services include on-site maintenance, required inspections and tests, training, and spill response including Qualified Individual responsibilities and authority. RAFS is an Anchorage based not-for-profit corporation organized to contract for the operation and maintenance of rural Alaskan bulk fuel storage facilities.

The Facility Manager (School Principal), the Superintendent of Schools, the YKSD Facility & Maintenance Department, and RAFS work cooperatively to achieve regulatory compliance and effective oil spill prevention and response.

I hereby confirm that since this SPCC Plan was prepared in July 2007 there have been no changes in facility design, construction, operation, or maintenance that could materially affect the potential for discharge to navigable water.

Authorized Facility Representative: _____ Kerry Boyd _____
Signature: _____ *Kerry M Boyd* _____
Title: _____ Superintendent of Schools _____
Date: _____ Nov 4, 2013 _____

PROFESSIONAL ENGINEER'S CERTIFICATION (112.3(d))

The undersigned Registered Professional Engineer is familiar with the requirements of Part 112 of Title 40 of the *Code of Federal Regulations* (40 CFR 112) and has visited and supervised examination of the facility, or has supervised examination of the facility by appropriately qualified personnel. The undersigned Registered Professional Engineer attests that this Oil Spill Prevention, Control and Countermeasure Plan has been prepared in accordance with good engineering practices, including consideration of applicable industry standards and requirements of 40 CFR 112; that procedures for required inspections and testing have been established; and that this Plan is adequate for the facility.

This certification in no way relieves the owner or operator of the facility of his/her duty to prepare and fully implement this SPCC Plan in accordance with the requirements of 40 CFR 112. This Plan is valid only to the extent that the facility owner or operator maintains, tests, and inspects equipment, containment, and other devices as prescribed in this Plan.



Signature

James P. Vail, PE

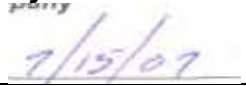
Name

Senior Civil Engineer

Title

PDC Inc. Engineers

Company



Date

CE-8198

P.E. Registration Number



1.0 PLAN ADMINISTRATION

1.1 Location of SPCC Plan (40 CFR 112.3(e))

In accordance with 40 CFR 112.3(e), a complete copy of this SPCC Plan is maintained in the School office, as well as in the district office located in Fairbanks. The main office is attended whenever school is in session.

1.2 Plan Review (40 CFR 112.3 and 112.5)

1.2.1 Changes in Facility Configuration

In accordance with 40 CFR 112.5(a), the YKSD Minto School periodically reviews and evaluates this SPCC Plan for any change in the facility design, construction, operation, or maintenance that materially affects the school's potential for an oil discharge, including, but not limited to:

- Commissioning of containers;
- Reconstruction, replacement, or installation of piping systems;
- Construction or demolition that might alter secondary containment structures; or changes of product or service, revisions to standard operation, modification of testing/inspection procedures, and use of new or modified industry standards or maintenance procedures.
- Changes of product or services, revisions to standard operation, modification of testing/inspection procedures, and use of new or modified industry standards or maintenance procedures.

Amendments to the Plan made to address changes of this nature are referred to as technical amendments, and must be certified by a PE. Non-technical amendments can be prepared (and must be documented in this section) by the facility owner and/or operator. Non-technical amendments include the following:

- Change in the name or contact information (i.e., telephone numbers) of individuals responsible for the implementation of this Plan; or
- Change in the name or contact information of spill response or cleanup contractors.

The YKSD Minto School must make the needed revisions to the SPCC Plan as soon as possible, but no later than six months after the change occurs. The amended Plan must be implemented as soon as possible, but **no later than six months** from the date of the amendment. The Superintendent of Schools is responsible for initiating and coordinating revisions to the SPCC Plan.

1.2.2 Scheduled Plan Reviews

In accordance with 40 CFR 112.5(b), the YKSD Minto School must review this SPCC Plan at least once every five years. Revisions to the Plan, if needed, are made within six months of the five year review. A registered Professional Engineer certifies any technical amendment to the Plan, as described above, in accordance with 40 CFR 112.3(d). This Plan was

**Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska**

originally prepared in July 2007. It was reviewed and updated in July 2013.

1.2.3 Plan Review Log

Scheduled reviews and Plan amendments are recorded in the Plan Review Log (Table 1-1). The log must be completed even if no amendment is made to the Plan as a result of the review. Unless a technical or administrative change prompts an earlier review of the Plan, the next scheduled review of this Plan must occur by July, 2018.

Table 1-1 Plan Review Log

<u>By</u>	<u>Date</u>	<u>Activity</u>	<u>PE certification required?</u>	<u>Comments</u>
J. Vail	7/15/07	Facility Construction	Y	Initial Plan preparation
Kerry Boyd	7/31/13	5 Year Evaluation	N	

PE certifications of this Plan are summarized below:

<u>Date</u>	<u>Scope</u>	<u>PE Name</u>	<u>Licensing State and Registration No.</u>
7/15/07	Establish SPCC Plan	James P. Vail	AK CE-8198

1.3 Facilities, Procedures, Methods, or Equipment (40 CFR 112.7)

Bulk storage containers at this facility were tested for integrity prior to their installation in 2005. All ASTs at this facility are shop fabricated double wall tanks, constructed to comply with all industry standards. Piping between tanks and buildings were leak and integrity tested during installation. Section 4.2.6 of this plan describes the inspection program to be implemented by the facility following a regular schedule, including the dates by which each of each of the bulk storage containers must be tested.

**Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska**

1.4 Cross Reference with SPCC Provisions (40 CFR 112.7)

This SPCC Plan does not follow the exact order presented in 40 CFR 112. Section headings identify, where appropriate, the relevant sections of the SPCC rule. Table 1-2 presents a cross reference of Plan sections relative to applicable parts of 40 CFR 112.

Table 1-2: SPCC Cross Reference

<u>Provision</u>	<u>Plan Section</u>	<u>Page</u>
112.3(d)	Professional Engineer Certification	2
112.3(e)	Section 1.1 Location of SPCC Plan	3
112.5	Section 1.2 Plan Review	3 Table 1-1
112.7	Management Approval	1
112.7	Section 1.4 Cross Reference with SPCC Rule	5 Table 1-2
112.7(a)(3)	Section 2.0 Facility General Information Appendix A: Site Plan, Facility Diagram and School Fuel Oil Piping Diagram	7 Appendix A
112.7(a)(4)	Section 5.4 Discharge Notification	24 Appendix G
112.7(a)(5)	Section 5.0 Discharge Response	21
112.7(b)	Section 3.4 Potential Discharge Volumes and Flow	10
112.7(c)	Section 3.5 Containment and Diversionary Structures	13
112.7(d)	Section 3.6 Practicability of Secondary Containment	13
112.7(e)	Section 3.7 Inspections, Tests, and Records	13 Appendix C
112.7(f)	Section 3.8 Personnel, Training and Discharge Prevention Procedures	15
112.7(g)	Section 3.9 Security	16
112.7(h)	Section 3.10 Tank Truck Loading/Unloading	16
112.7(i)	Section 3.11 Brittle Fracture Evaluation	16
112.7(j)	Section 3.12 Conformance with Applicable State/Local Requirements	16
112.8(b)	Section 4.1 Facility Drainage	17
112.8(c)(1)	Section 4.2.1 Construction	18
112.8(c)(2)	Section 4.2.2 Secondary Containment	18
112.8(c)(3)	Section 4.2.3 Drainage of Diked Areas	18
112.8(c)(4)	Section 4.2.4 Corrosion Protection	18
112.8(c)(5)	Section 4.2.5 Partially Buried and Bunkered Storage Tanks	18
112.8(c)(6)	Section 4.2.6 Inspections and Tests	18 Appendix C
112.8(c)(7)	Section 4.2.7 Heating Coils	18

Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska

<u>Provision</u>	<u>Plan Section</u>	<u>Page</u>
112.8(c)(8)	Section 4.2.8 Overfill Prevention System	18
112.8(c)(9)	Section 4.2.9 Effluent Treatment Facilities	19
112.8(c)(10)	Section 4.2.10 Visible Discharges	19
112.8(c)(11)	Section 4.2.11 Mobile and Portable Containers	19
112.8(d)	Section 4.3 Transfer Operations, Pumping and In-Plant Process	19
112.20(e)	Section 2.2 Evaluation of Discharge Potential Certification of the Applicability of the Substantial Harm Criteria	8 Appendix B

2.0 GENERAL FACILITY INFORMATION

Name:	Yukon-Koyukuk School District Minto School
Address:	P.O. Box 81 Minto, Alaska 99758
Type:	School Fuel Storage Facility
Date of Initial Operation:	1970
Owner/Operator	Yukon-Koyukuk School District 4762 Old Airport Way Fairbanks, Alaska 99709-4456
Primary Contact:	YKSD Superintendent of Schools Work: 907-374-9400

2.1 Facility Description (40 CFR 112.7(a)(3))

2.1.1 Location and Activities

Minto is a rural village that sits on a bluff above the Tolovana River. Goods and fuels are delivered by truck. Boats allow access to the Tolovana River and the Nenana River; however no barge service exists due to shallow water. Diesel fuel is delivered by truck from Fairbanks (approximately 118 miles). Fuel is used to heat the buildings.

The Minto School is located in a residential area. It is utilized by the community as a school and gathering center. The site is located within the Manley Hot Springs Recording District in Section 23, Township 4 north, Range 9 west, Fairbanks Meridian. The legal description of the property is identified as "School Site" on Plat 82-2, recorded in the Manley Hot Springs Recording District on May 20, 1982. The site comprises approximately 6.75 acres of land.

A site location map, Figure 1, and Facility Diagram, Figure 2, are included in Appendix A. Figure 1 shows the general location of the facility on a US Geological Survey topographic map. Figure 2 (Facility Diagram) shows locations of aboveground storage tanks (ASTs), buildings, and the fuel delivery area. Drawing C1.6, also provided in Appendix A, shows the school Fuel Oil Piping Valve Diagram.

2.1.2 Oil Storage

The Minto School complex contains two 8000 gallon double wall horizontal ASTs and three 1000 gallon intermediate tanks. Tanks #1 and #2 are positioned within a fenced enclosure south of the Generator building. Tank #3 is adjacent to the south side of the Generator building, Tank #4 is located south of the Voc Ed building, and Tank #5 is located on the west side of the School building. All tanks comply with secondary containment

**Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska**

regulations, and all tanks contain diesel fuel. Table 2-1 summarizes the school's oil storage capacity.

Table 2-1: Oil Storage Capacity

Tank ID	Storage Capacity (Gallon)	Contents	Description
1	8,000 gallons	Diesel	Aboveground double wall horizontal tank placed on 8"x12"x12' treated timber sleepers on a gravel pad.
2	8,000 gallons	Diesel	Aboveground double wall horizontal tank placed on 8"x12"x12' treated timber sleepers on a gravel pad.
3	1,000 gallons	Diesel	Aboveground double wall horizontal tank placed on a gravel pad on treated timber sleepers.
4	1,000 gallons	Diesel	Aboveground double wall horizontal tank placed on a gravel pad on treated timber sleepers.
5	1,000 gallons	Diesel	Aboveground double wall horizontal tank placed on a gravel pad on treated timber sleepers.

Total Oil Storage Capacity: 19,000 gallons

In addition to the fuel storage tanks listed above. There are two day tanks at the Minto School complex: one 25-gallon day tank in the generator building and one 50-gallon day tank in the school building. The day tanks have rupture basins with a capacity of 35 and 75 gallons, respectively. The day tanks are also equipped with automatic high level supply pump shutoff, and overflow return pumps. Due to the small size of these tanks, they are not classified as fuel storage tanks.

Tanks #1 and #2 are filled via truck, through a truck fill box installed within the fenced enclosure. The truck fill box has a weatherproof, lockable housing with a seven-gallon total spill capacity. Fuel is transferred as needed to Tank #3, #4, or #5 through the use of control panels and manual valves. Refer to Drawing C1.6, provided in Appendix A, for fuel transfer guidance and valve operation data.

2.2 Evaluation of Discharge Potential

The YKSD management has determined that this facility does not pose a risk of substantial harm under 40 CFR 112, as recorded in the *Certification of the Applicability of the Substantial Harm Criteria* provided in Appendix B.

2.2.1 Distance to Navigable Waters and Adjoining Shorelines and Flow Paths

The Tolovana River is the nearest body of water. The site sits approximately 1,500 feet from the river, and is approximately 150 feet higher in elevation than the river. Stormwater at the site is distributed over

**Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska**

relatively flat ground with discharge to the northeast. There is a very small risk of any spills from the facility impacting the Tolovana River.

2.2.2 Discharge History

Table 2-2 summarizes the facility's discharge history.

Table 2-2: Oil Discharge History

Description of Discharge	Corrective Actions Taken	Plan for Preventing Recurrence
<p>A 10,000 gallon fuel tank leaked approximately 60-70% of its contents during Winter 1984, which contaminate the school's well.</p> <p>A leak in the fuel line next to the school building resulted in a 600 to 800-gallon release in 1987.</p>	<p>The well was abandoned and the school hooked to the community water system, and a gymnasium erected in the spill area.</p> <p>Fuel line repaired.</p> <p>Old bulk storage tanks and distribution piping have been decommissioned and are designated to be removed as funds become available.</p> <p>New system employs fill port containment, double wall storage tanks, and welded distribution piping.</p>	<p>Old tanks have been replaced with double wall tanks. New underground piping has cathodic protection. Regular visual inspections will be performed on tanks and piping, so that any leaks may be quickly identified and repaired.</p>
<p>As of July 2013, no reportable discharges (spills to navigable water or adjoining shore lines) have occurred from the school's current fuel system.</p>		

3.0 DISCHARGE PREVENTION – GENERAL SPCC PROVISIONS

The following measures are implemented to prevent oil discharges during the handling, use, or transfer of oil products at the facility. Oil handling employees have received training in the proper implementation of these measures.

3.1 Compliance with Applicable Requirements (40 CFR 112.7(a)(2))

The YKSD Minto School complex has five new double wall ASTs. These ASTs are all double wall shop fabricated horizontal tanks, which are elevated a minimum of one foot from bottom of tank and finished ground. The tanks are inspected regularly and following a regular schedule in accordance with the Steel Tank Institute (STI) SP-001 latest revision tank inspection standards as described in this Plan. Any leakage from the primary container would be detected through monitoring of the interstitial space performed on a monthly basis. Any leakage from the secondary containment shell would be detected visually during scheduled visual inspections by facility personnel.

The YKSD Minto School complies with all secondary containment regulations. The National Fire Protection Association (NFPA) *30 Flammable and Combustible Liquids Code*, 2003 edition, Section 4.3.2.3.3 states the capacity of any one double wall tank can not exceed 12,000 gallons. The tanks at this facility are each less than 12,000 gallons.

3.2 Facility Layout Diagram (40 CFR 112.7(a)(3))

Figure 1 in Appendix A shows the general location of the facility on a U.S. Geological Survey topographic map. *Figure 2* in Appendix A, presents a layout of the facility, the location of storage tanks, and the direction of surface water runoff. As required under 40 CFR 112.7(a)(3), the Facility Diagram (*Figure 2*) indicates the location and contents of ASTs and connecting piping (diesel). The location of the spill response kit (Voc Ed building) is noted on *Figure 2*.

3.3 Spill Reporting (40 CFR 112.7(a)(4))

The discharge notification forms required by ADEC to be completed are located in Appendix G. The appropriate form will be completed upon immediate detection of a discharge, and reported as required depending upon the amount and location the discharge affects.

3.4 Potential Discharge Volumes and Direction of Flow (40 CFR 112.7(b))

Table 3-1 presents expected volume and discharge rates, general direction of flow in the event of equipment failure, and means of secondary containment for the five ASTs located in different parts of the facility where oil is stored, used, or handled. Also included is information on the day tanks, which are not classified as storage containers but which contain fuel and therefore have a potential for discharge.

**Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska**

Table 3-1: Potential Tank Discharge Volumes and Direction of Flow

<i>Potential Event</i>	<i>Maximum Volume Released (gallons)</i>	<i>Maximum Discharge rate</i>	<i>Direction of Flow</i>	<i>Secondary Containment</i>
Tank #1 - AST Bulk Fuel Storage in fenced enclosure				
Failure of aboveground tank (collapse or puncture below product level)	8,000	Gradual to instantaneous	N away from the facility	Double wall tank with secondary containment capacity of 8,620 gallons (108% containment).
Tank overfill	1 to 120	60 gal/min	N away from the facility	Audible air vent, direct vision gauges, high liquid level cutoff device.
Tank #2 - AST Bulk Fuel Storage in fenced enclosure				
Failure of aboveground tank (collapse or puncture below product level)	8,000	Gradual to instantaneous	N away from the facility	Double wall tank with secondary containment capacity of 8,620 gallons (108% containment).
Tank overfill	1 to 120	60 gal/min	N away from the facility	Audible air vent, direct vision gauges, high liquid level cutoff device.
Tank #3 - Intermediate AST outside Generator building				
Failure of aboveground tank (collapse or puncture below product level)	1,000	Gradual to instantaneous	N, away from the facility	Double wall tank with secondary containment capacity of 1,183 gallons (118% containment).
Tank overfill	1 to 12	17 gal/min	N, away from the facility	Audible air vent, direct vision gauges, high liquid level cutoff device
Tank #4 - Intermediate AST south of Voc-Ed building				
Failure of aboveground tank (collapse or puncture below product level)	1,000	Gradual to instantaneous	NW, away from facility	Double wall tank with secondary containment capacity of 1,183 gallons (118% containment).
Tank overfill	1 to 12	17 gal/min	NW, away from facility	Audible air vent, direct vision gauges, high liquid level cutoff device

**Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska**

<i>Potential Event</i>	<i>Maximum Volume Released (gallons)</i>	<i>Maximum Discharge rate</i>	<i>Direction of Flow</i>	<i>Secondary Containment</i>
Tank #5 - Intermediate AST outside School building				
Failure of aboveground tank (collapse or puncture below product level)	1000	Gradual to instantaneous	N, away from the facility	Double wall tank with secondary containment capacity of 1,183 gallons (118% containment).
Tank overfill	1 to 12	17 gal/min	N, away from the facility	Audible air vent, direct vision gauges, high liquid level cutoff device.
Tank #6 - 25 gallon day tank at Generator Building				
Failure of day tank (collapse or puncture below product level)	25	Gradual to instantaneous	Secondary containment exceeds tank capacity.	Rupture basin capacity 35 gallons. Automatic high level supply pump shutoff, overflow return pump.
Tank #7 - 50 gallon day tank at Minto School				
Failure of day tank (collapse or puncture below product level)	50	Gradual to instantaneous	Secondary containment exceeds tank capacity.	Rupture basin capacity 75 gallons. Automatic high level supply pump shutoff, overflow return pump.

Potential spills may occur due to tank rupture, hose or valve malfunction during fuel transfer operations, tank overflow, or a possible underground fuel line break/leak. Discharged fuel on land would be absorbed into the local soils and would be contained by temporary trenches and sorbent materials and/or berms of earth and, if necessary, snow. During winter, the surface will be covered with a snow and ice layer which could limit infiltration of fuel and assist in containment. The YKSD Minto School personnel will remove spilled fuel from temporary trenches, berms, etc. immediately, using equipment and manpower available.

The potential piping discharge volume and direction of flow is delineated in Table 3-2, below.

Table 3-2: Potential Piping Discharge Volume and Direction of Flow

<i>Potential Event</i>	<i>Spill Description/Direction</i>	<i>Volume Released</i>	<i>Spill Rate</i>
General distribution piping (2"), approximately 300 linear feet	Pipe rupture/leak Absorbed in soil	42 gallons maximum volume or less	1 gpm or less

It is possible that a valve could fail; however, all valves permitting direct outward flow will remain in the normally closed position when not operating or in standby status. Additionally, it is possible that the distribution piping could be ruptured; however, the normally closed valve configuration would allow only the contents of that section of pipe to be discharged, fully containing the diesel within the tanks.

3.5 Containment and Diversionsary Structures (40 CFR 112.7(c))

Methods of compliance with secondary containment requirements at this facility are met by utilizing double wall construction for all tanks, and land based spill response sorbents to prevent oil from reaching navigable waters and adjoining shorelines. For more information on bulk storage containers refer to Section 4.2.2 of this Plan.

All bulk storage containers are horizontal shop fabricated double wall design with a secondary shell designed to contain 106% to 118% of inner shell capacity. The largest double wall tank does not exceed 8,000 gallons. Refer to Table 4-1 for oil storage capacity features and containment capacity. The day tanks are designed to have the ability to contain 150% of oil in a rupture basin.

Submersible pumps are located in Tanks #1 and #2. These are double wall tanks that sit on timbers, elevating the bottom of the tank not more than one foot above finished grade.

A spill cleanup kit which includes sorbent material, booms, and other portable barriers is located inside the Voc Ed building as noted on Figure 2 - Facility Diagram (Appendix A). The response equipment inventory for the facility is listed in Appendix H of this Plan. The inventory is checked monthly to ensure that used material is replenished.

3.6 Practicability of Secondary Containment (40 CFR 112.7(d))

The YKSD Minto School has determined that secondary containment is practicable at this facility.

3.7 Inspections, Tests, and Records (40 CFR 112.7(e))

As required by the SPCC rule, the YKSD Minto School personnel perform the inspections, tests, and evaluations listed in Table 3-3. Table 3-3 summarizes the various types of inspections and tests performed at the facility. The inspections and tests are described later in this section and in the respective sections that describe different parts of the facility as stated in Section 4.2.6 for bulk storage containers.

Table 3-3: Inspection and Testing Program

<i>Facility Components</i>	<i>Action</i>	<i>Frequency/Circumstances</i>
Aboveground Container	Test container for integrity.	In accordance with current edition of Steel Tank Institute Standard SP001, Table 5-5.
Container supports and foundation	Inspect container's supports and foundations.	Following regular schedule (monthly, annual, and during scheduled inspections) and whenever material repairs are made.
Liquid level sensing devices (overfill)	Test for proper operation.	Annual

**Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska**

<i>Facility Components</i>	<i>Action</i>	<i>Frequency/Circumstances</i>
All aboveground valves, piping, and appurtenances	Assess general condition of items, such as flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces.	Monthly
Buried piping	Inspect for deterioration	Whenever a section of buried line is exposed for any reason.
Piping, general	Integrity and leak testing.	At the time of installation, modification, construction, relocation, or replacement.

3.7.1 Daily Inspection

The YKSD employee performs a complete walk-through of the school complex each day. This daily inspection involves looking for tank/piping damage or leakage, stained or discolored soils or ice/snow.

3.7.2 Monthly Inspection

The checklist provided in Appendix C is used for monthly inspection by YKSD personnel. The monthly inspections cover the following key elements:

- Observing the exterior of aboveground storage tanks, pipes, and other equipment for signs of deterioration, leaks, corrosion, and thinning.
- Observing the exterior of portable containers for signs of deterioration or leaks.
- Observing tank foundations and supports for signs of instability or excessive settlement.
- Observing the tank fill and discharge pipes for signs of poor connection that could cause a discharge, and tank vent for obstructions and proper operation.
- Verifying the proper functioning of overfill prevention system.
- Checking the inventory of discharge response equipment and restock as needed.

All problems regarding tanks, piping, containment or response equipment must immediately be reported to the Facility Manager who will promptly notify the YKSD Facility and Maintenance Department. Visible oil leaks from tank walls, piping, or other components must be repaired as soon as possible to prevent a larger spill or a discharge to navigable waters or adjoining shorelines. Pooled oil is removed immediately upon discovery.

Written monthly inspection records are signed by the Facility Manager and maintained with this SPCC Plan for a minimum period of three years.

3.7.3 Annual Inspection

Facility personnel perform a more thorough inspection of the facility equipment on an annual basis. This annual inspection complements the monthly inspection described above and is performed in July of each year

using the checklist provided in Appendix C of this Plan. Written annual inspection records are signed by the Facility Manager and maintained with this SPCC Plan for a minimum period of three years.

The complete Minto School fuel facilities shall be inspected annually for leaks, damage, rusting, or any condition likely to cause leaks or breaks. The inspection includes the following:

- storage tanks,
- fill lines (including day tanks),
- associated valves,
- flexible connections (remove tension from flex connections as much as possible),
- tank platforms (any tanks that are not level will be re-leveled to a safe configuration – tilt shall be no greater than three degrees which is equal to the top and bottom of a tank being eight inches out of alignment).

Water must be drained and contents measured in all aboveground storage tanks (ASTs). Water finding paste shall be used on all tanks. Should any AST be found to contain substantial water, it shall be carefully drained of water, using care to prevent any impact to the environment.

3.7.4 Periodic Integrity Testing

In addition to the above monthly and annual inspections by facility personnel, tanks should periodically be evaluated by an outside certified tank inspector following the Steel Tank Institute (STI) *Standard for the Inspection of Aboveground Storage Tanks*, SP-001, 2005 version or later as described in Section 4.2.6 of this Plan.

3.8 Personnel, Training, and Discharge Prevention Procedures (40 CFR 112.7(f))

The Facility Manager, in conjunction with the Superintendent of Schools, is the facility designee and is responsible for oil discharge prevention, control, and response preparedness activities at this facility.

The YKSD management has instructed oil handling facility personnel in the operation and maintenance of oil pollution prevention equipment, discharge procedure protocols, applicable pollution control laws, rules and regulations, general facility operations, and the contents of this SPCC Plan. Any new facility personnel with oil handling responsibilities are provided with this same training prior to being involved in any oil operation.

Annual discharge prevention briefings are held by the Facility Manager for all facility personnel involved in oil handling operations. The briefings are aimed at ensuring continued understanding and adherence to the discharge prevention procedures presented in the SPCC Plan. The briefings also highlight and describe known discharge events or failures, malfunctioning components, and recently implemented precautionary measures and best practices. Facility operators and other personnel have the opportunity, during the briefings, to share recommendations concerning health, safety, and environmental issues encountered during facility operations.

Attendance and subject information from the Annual Discharge Prevention Briefings and Training are recorded on the form provided in Appendix D, and maintained with this SPCC Plan for a minimum period of three years.

3.9 Security (40 CFR 112.7(g))

Tanks #1 and #2 are positioned within a fenced enclosure. The enclosure consists of six feet of fencing fabric mesh, and one and one half feet of three- strand, four-point barbed wire, and two man gate. The man gates remain locked at all times, except when entered by authorized personnel.

Tanks #3, #4, and #5 are not fenced; however, they are protected by brightly painted bollards spaced at intervals such that vehicle impact will not compromise the integrity of the tanks.

YKSD Minto School personnel are on site during normal school hours, some evenings, and on weekends while the school complex is utilized for school events and community functions. While school is closed in the summer, a local YKSD maintenance person typically visits and inspects the complex daily.

3.10 Tank Truck Loading/Unloading Rack (40 CFR 112.7(h))

The section does not apply as there are no tank truck loading/unloading racks at this facility.

3.11 Brittle Fracture Evaluation (40 CFR 112.7(i))

This section is not applicable to this facility. All ASTs at this facility are shop fabricated double wall construction.

3.12 Conformance with Applicable State Requirements (40 CFR 112.7(j))

The State of Alaska requires that bulk fuel facilities acquire approval from the Alaska State Fire Marshall prior to construction and operation. The tank installation plans were reviewed for conformity with State Fire and Life Safety Regulations. On June 21, 2005, a certificate of approval was issued.

**Spill Prevention, Control and Countermeasure Plan
Minto School
Minto, Alaska**

4.0 DISCHARGE PREVENTION (SPCC Provisions for Onshore Facilities (excluding production facilities))

4.1 Facility Drainage (40 CFR 112.8(b))

This section is not applicable to this facility. No facility drainage system is in place. All ASTs are shop fabricated double wall construction.

4.2 Bulk Storage Containers (40 CFR 112.8(c))

Table 4-1 summarizes the construction, volume, and contents of bulk storage containers at the YKSD Minto School.

Table 4-1: List of Oil Containers

Tank	Location	Type (Construction Standard)	Capacity (gallons)	Content	Discharge prevention & Containment
1 And 2	Southwest of the Generator Building, which is southwest of the School Building	AST horizontal (UL 142)	8,000	Diesel	Double wall tanks with secondary containment capacity of 8,644 gallons (107% containment). AST has additional secondary containment by a layer of geo-membrane and geo-textile liner beneath tank. Audible air vent, direct vision gauges, high liquid level cutoff device.
3	South of the Generator Building	AST horizontal (UL 142)	1,000	Diesel	Double wall tank with secondary containment capacity of 1,169 gallons (117% containment). Audible air vent, direct vision gauges, high liquid level cutoff device.
4	West side of the School Building	AST horizontal (UL 142)	1,000	Diesel	Double wall tank with secondary containment capacity of 1,169 gallons (117% containment). Audible air vent, direct vision gauges, high liquid level cutoff device.
5	South of the Voc Ed Building	AST horizontal (UL 142)	1,000	Diesel	Double wall tank with secondary containment capacity of 1,169 gallons (117% containment). Audible air vent, direct vision gauges, high liquid level cutoff device.

4.2.1 Construction (40 CFR 112.8(c)(1))

All oil tanks used at this facility are constructed of steel, in accordance with industry specifications as described above. The design and construction of

all bulk storage containers are compatible with the characteristics of the oil product they contain, and with the temperature and pressure conditions.

4.2.2 Secondary Containment (40 CFR 112.8(c)(2))

All tanks on site are shop fabricated double wall tanks satisfying the secondary containment rule. All tanks sit on timbers elevating the bottoms of the tanks a minimum distance of one foot above finished grade.

4.2.3 Drainage of Diked Areas (40 CFR 112.8(c)(3))

There is no drainage system or diked area on site.

4.2.4 Corrosion Protection (40 CFR 112.8(c)(4))

There are no underground storage tanks in use at this facility; however, all underground piping between ASTs, and between ASTs and the buildings they service is wrapped and cathodically protected.

4.2.5 Partially Buried and Bunkered Storage Tanks (40 CFR 112.8(c)(5))

This section is not applicable since there are no partially buried or bunkered storage tanks at this facility.

4.2.6 Inspections and Tests (40 CFR 112.8(c)(6))

Visual inspections of ASTs by facility personnel are performed according to the procedures described in this SPCC Plan. Leaks from tank seams, gaskets, rivets, and bolts are promptly corrected. Records of inspections and tests are signed by the inspector and kept at the facility for at least three years.

The scope and schedule of certified inspections and test performed on the facility's ASTs are specified in STI Standard SP-001, 2005 Edition or later. The external inspection includes ultrasonic testing of the shell, as specified in the standard, or if recommended by the certified tank inspector to assess the integrity of the tank for continued oil storage.

Records of certified tank inspections are kept at the facility for at least three years. Shell test comparison records are retained for the life of the tanks.

See Section 3.7 and Table 3-3 for specific testing and reporting requirements.

4.2.7 Heating Coils (40 CFR 112.8(c)(7))

This section is not applicable to this facility. No heating coils are installed.

4.2.8 Overfill Prevention Systems (40 CFR 112.8(c)(8))

All ASTs are equipped with audible air vents, direct vision gauges, and fill limiting valves. ASTs are also equipped with high liquid level cutoff devices. Additionally, facility personnel must be present throughout the filling operations to monitor the product level in the tanks. Pump circuits have timers that automatically shut off pumps, and must be manually reset.

4.2.9 Effluent Treatment Facilities (40 CFR 112.8(c)(9))

This section is not applicable to this facility. No fixed drainage systems are in place.

4.2.10 Visible Discharges (40 CFR 112.8(c)(10))

Visible discharges from any container or appurtenance – including seams, gaskets, piping, pumps, valves, rivets, and bolts – are quickly corrected upon discovery.

4.2.11 Mobile and Portable Containers (40 CFR 112.8(c)(11))

This section is not applicable to this facility. No mobile and portable containers are utilized at this complex.

4.3 Transfer Operations, Pumping, and Facility Process (40 CFR 112.8(d))

Transfer operations at this facility include:

- transfer of fuel oil (diesel) from two ASTs (Tanks #1 and #2) to two intermediate tanks (Tanks #3 and #4), and subsequent transfer from the intermediate tanks to two day tanks to meet the heating needs for the School Building and the Generator Building
- transfer of fuel oil (diesel) from two ASTs (Tanks #1 and #2) to intermediate Tank #5 to meet the heating needs for the Voc Ed Building

Diesel fuel is delivered by truck from Fairbanks (approximately 118 miles). Tanks #1 and #2 are filled from a truck fill box located within the fenced enclosure. From Tanks #1 and #2, the other three tanks at the school complex are connected via two-inch grade “B” seamless carbon steel Schedule 80 pipe buried underground. Underground piping is wrapped and has cathodic protection appropriately installed.

The underground piping begins at Tank #1 (8,000 gallon AST) and splits in two directions. The first pipe run goes northeast from Tanks #1 & #2, with a spur to Tank #3 at the Generator Building. The pipe run continues northeast to Tank #4, at the School Building. The second pipe run starts at Tank #1 and proceeds southeast to Tank #5, the 1,000 gallon AST at the Voc Ed Building. Refer to Drawing C1.6 – Fuel Oil Piping Valve Diagram provided in Appendix A.

Lines that are not in service or are on standby for an extended period of time are capped or blank-flanged and marked as to their origin.

All aboveground piping and valves are examined monthly to assess their condition. Inspection includes aboveground valves, piping, appurtenances, expansion joints, valve glands and bodies; catch pans, pipeline supports, locking of valves, and metal surfaces. Observations are noted on the monthly inspection checklist provided in the Plan.

ASTs are located such that vehicular traffic access is inaccessible. Brightly painted bollards are placed where needed to prevent vehicular collisions with equipment.

4.3.1 *Fuel Carrier and Designated Person Responsibilities*

The fuel carrier is in charge of all the delivery operations from the truck to the fill box. YKSD's designated person is responsible for the receiving systems, including tanks, piping and valves. Care must be taken during the fuel transfer to coordinate between the facilities person and the delivery person to reduce the potential for a spill. Prior to starting a fuel delivery operation, the YKSD Facilities person shall confirm that valves on the fuel service lines are closed, and drain valves on all tanks are closed.

4.3.2 *Fuel Transfer*

The YKSD facilities person will manage the transfer of fuel from the fuel storage tanks to the intermediate and day tanks, as necessary.

4.3.3 *Contaminated Fuel*

The YKSD facilities person will inspect all tanks for water to be certain the fuel carrier did not supply contaminated fuel. If contamination is found, immediately notify the fuel carrier that the fuel is contaminated and jointly conduct an inspection of all the tanks to determine the level of contamination. It is the fuel carrier's responsibility to rectify the contamination issue. Immediately notify the YKSD School Superintendent.

5.0 DISCHARGE RESPONSE (40 CFR 112.7(a)(5))

This section describes the response and clean up procedures in the event of an oil discharge. The uncontrolled discharge of oil to groundwater, surface water, or soil is prohibited by state and possibly federal laws. Immediate action must be taken to control, contain, and recover discharged product.

In general, the following steps are taken:

- Eliminate potential spark sources;
- If possible and safe to do so, identify and shutdown source of the discharge to stop the flow;
- Contain the discharge with sorbents, berms, fences, trenches, sandbags, or other material;
- Contact the Facility Manager or designated alternate;
- Contact regulatory authorities and the response organization; and
- Collect and dispose of recovered product according to regulation.

For purposes of establishing appropriate response procedures, this SPCC Plan classifies discharges as either “minor” or “major”, depending on the volume and characteristics of the material released.

A list of Emergency Contacts is located on the front cover of this Plan, as well as in Appendix F. A list of discharge response material kept at the facility is included in Appendix H.

5.1 Response to a Minor Discharge (40 CFR 112.7(a)(3)(iv))

A “*Minor*” discharge is defined as an event that poses no significant harm to human health or the environment. Minor discharges are generally those where:

- The quantity of product discharged is small (e.g., may involve less than 10 gallons of oil);
- Discharged material is easily stopped and controlled at the time of the discharge;
- Discharge is localized near the source;
- Discharge material is not likely to reach water;
- There is little risk to human health or safety; and
- There is little risk of fire or explosion.

Three levels of “minor spill” have been established. Each level is determined by total gallons spilled, with differing reporting and response requirements. They are as follows:

5.1.1 Minor Spill - Level 1

Spills involving 10 gallons or less can usually be cleaned up by YKSD Minto School personnel. In the event of a minor spill involving a discharge of oil to land of less than ten gallons the following response guidelines shall apply:

- Immediately notify a senior on-site person (i.e. Facility Manager).

- Under the direction of certified personnel, contain the spill with spill response materials and equipment.
- Place spill debris in properly labeled waste containers.
- The Facility Manager shall maintain and provide to ADEC on a monthly basis a written record of releases or discharges, including a cumulative spill record of one to ten gallons of oil solely to land. The ADEC's *Monthly Oil Spill Log* form can be found in Appendix B. Attach a copy to this plan for future reference.

5.1.2 *Minor Spill - Level 2*

In the event of a minor spill solely to land involving either a discharge of oil in excess of 10 gallons but less than 55 gallons, the following response guidelines shall apply:

- Immediately notify a senior on-site person (i.e. Facility Manager).
- Under the direction of certified personnel, contain the spill with spill response materials and equipment.
- Place spill debris in properly labeled waste containers.
- The Facility Manager shall notify the ADEC within 48 hours of the release or spill. Telephoned notification must be followed immediately by completing, maintaining and providing to the ADEC an *Oil & Hazardous Substances Spill Notification* form by hand delivery, facsimile, or first class mail. Additionally, once the spill is cleaned up, an *Oil & Hazardous Materials Final Report* form must be completed, maintained and submitted to the ADEC within fifteen days after containment and cleanup are complete. If no cleanup occurs, the *Oil & Hazardous Materials Final Report* form must be submitted within fifteen days of the spill or release. The *Oil & Hazardous Substances Spill Notification* form, and the *Oil & Hazardous Materials Final Report* form can be found in Appendix G.

5.1.3 *Minor Spill - Level 3*

A discharge of oil in excess of 55 gallons (if the discharge or release is the result of escape from its original storage tank, pipeline, or other immediate container) into an impermeable secondary containment structure or area, the following response guidelines shall apply:

- Immediately notify a senior on-site person (i.e. Facility Manager).
- Under the direction of certified personnel, contain the spill with spill response materials and equipment.
- Place spill debris in properly labeled waste containers.
- The Facility Manager shall notify the ADEC within 48 hours of the release or spill. Telephoned notification must be followed immediately by completing, maintaining and providing to the ADEC an *Oil & Hazardous Substances Spill Notification* form by hand delivery, facsimile, or first class mail. Additionally, once the spill is cleaned up, an *Oil & Hazardous Materials Final Report* form must be completed, maintained and submitted to the ADEC within fifteen days after containment and cleanup are complete. If no cleanup

occurs, the *Oil & Hazardous Materials Final Report* form must be submitted within fifteen days of the spill or release. The *Oil & Hazardous Substances Spill Notification* form, and the *Oil & Hazardous Materials Final Report* form can be found in Appendix G.

5.2 Response to a Major Discharge (40 CFR 112.7(a)(3)(iv))

A “*major*” discharge is defined as one involving a spill that cannot be safely controlled or cleaned up. Characteristics include the following:

- The discharge is large enough to spread beyond the immediate spill area;
- the discharge material entered surface water or groundwater (regardless of spill size);
- the discharge requires special training and equipment to clean up;
- the discharge material poses a hazard to human health and safety; or
- there is a danger of fire or explosion.

In the event of a spill emergency in excess of 55 gallons of oil; a discharge of a hazardous substance other than oil, or a discharge to water no matter the spill size, the following guidelines shall apply:

- All workers shall immediately evacuate the spill site and move to a safe distance away from the spill.
- A senior on-site person shall call for medical assistance if workers are injured (no worker shall engage in rescue operations unless they have been properly trained and equipped).
- Notify the local Fire Department or Police Department.
- A senior on-site person shall contact the Facility Manager and provide details regarding the spill.
- A senior on-site person shall immediately call the ADEC. If the spill occurs during normal working hours call 907-451-2121 in Fairbanks, or the 24-hour hotline at 1-800-478-9300 if the spill occurs after normal hours. Telephoned notification must be followed immediately by completing, maintaining and providing to the ADEC an *Oil & Hazardous Substances Spill Notification* form by hand delivery, facsimile, or first class mail. Additionally, the senior on-site person must call the EPA National Response Center at 1-800-424-8802. The *Oil & Hazardous Substances Spill Notification* form can be found in Appendix G.
- The School District Superintendent will coordinate cleanup and seek assistance from a cleanup contractor as necessary.
- Once the spill is cleaned up, an *Oil & Hazardous Materials Final Report* form must be completed, maintained and submitted to the ADEC within fifteen days after containment and cleanup are complete. This form can be found in Appendix G.

If a senior on-site person is not available at the time of the spill, then the next highest YKSD Minto School employee in command shall assume responsibility.

5.3 Waste Disposal (40 CFR 112.7(a)(3)(v))

Organic wastes (soil contaminated with hydrocarbons) resulting from a minor or

major spill response will be stockpiled on site. The contaminated soil will be placed on and covered by visqueen. The ADEC must be contacted to complete an approved work plan to landfarm the contaminated soil. Other wastes associated with the cleanup will be disposed of in an appropriate manner based on the content of the wastes. Major spills may require the use of a cleanup contractor. See Appendix J for more information on landfarming.

5.4 Notification and Reporting (40 CFR 112.7(a)(4))

Alaska law requires that **all** oil and hazardous substance spills or releases be reported to the ADEC.

In the event of a minor spill involving a discharge of oil to land of less than ten gallons, the Facility Manager shall maintain and provide to the ADEC on a monthly basis a written record of releases or discharges, including a cumulative spill record of one to ten gallons of oil solely to land.

In the event of a minor spill solely to land involving either a discharge of oil in excess of 10 gallons but less than 55 gallons; or a discharge of oil in excess of 55 gallons (if the discharge or release is the result of escape from its original storage tank, pipeline, or other immediate container) into an impermeable secondary containment structure, the Facility Manager shall notify the ADEC within 48 hours of the release or spill. Telephoned notification must be followed immediately by completing, maintaining and providing to the ADEC an *Oil & Hazardous Substances Spill Notification* form by hand delivery, facsimile, or first class mail. Additionally, once the spill is cleaned up, an *Oil & Hazardous Materials Final Report* form must be completed, maintained and submitted to the ADEC within fifteen days after containment and cleanup are complete. If no cleanup occurs, the *Oil & Hazardous Materials Final Report* form must be submitted within fifteen days of the spill or release.

In the event of a spill emergency in excess of 55 gallons oil; a discharge of a hazardous substance other than oil or a discharge to water no matter the spill size, the senior on-site person shall **immediately** call the ADEC. If the spill occurs during normal working hours call 907-451-2121 in Fairbanks, or the 24-hour hotline at 1-800-478-9300 if the spill occurs after normal hours. Telephoned notification must be followed immediately by completing, maintaining and providing to the ADEC an *Oil & Hazardous Substances Spill Notification* form by hand delivery, facsimile, or first class mail. Additionally, the senior on-site person must **immediately** call the EPA National Response Center at 1-800-424-8802 to report the spill.

5.4.1 Spill Notification Forms

Any size discharge (I.E., one that creates a sheen, emulsion, or sludge) that affects or threatens to affect navigable water or adjoining shorelines must be reported immediately to the National Response Center (1-800-424-8802). The Center is staffed 24 hours a day.

A copy of the required spill notification forms can be found in Appendix G. Any forms completed for any spill or release event shall be filed by facility name and maintained as long as the YKSD Minto School owns and/or operates this facility.

5.4.2 Area Plans

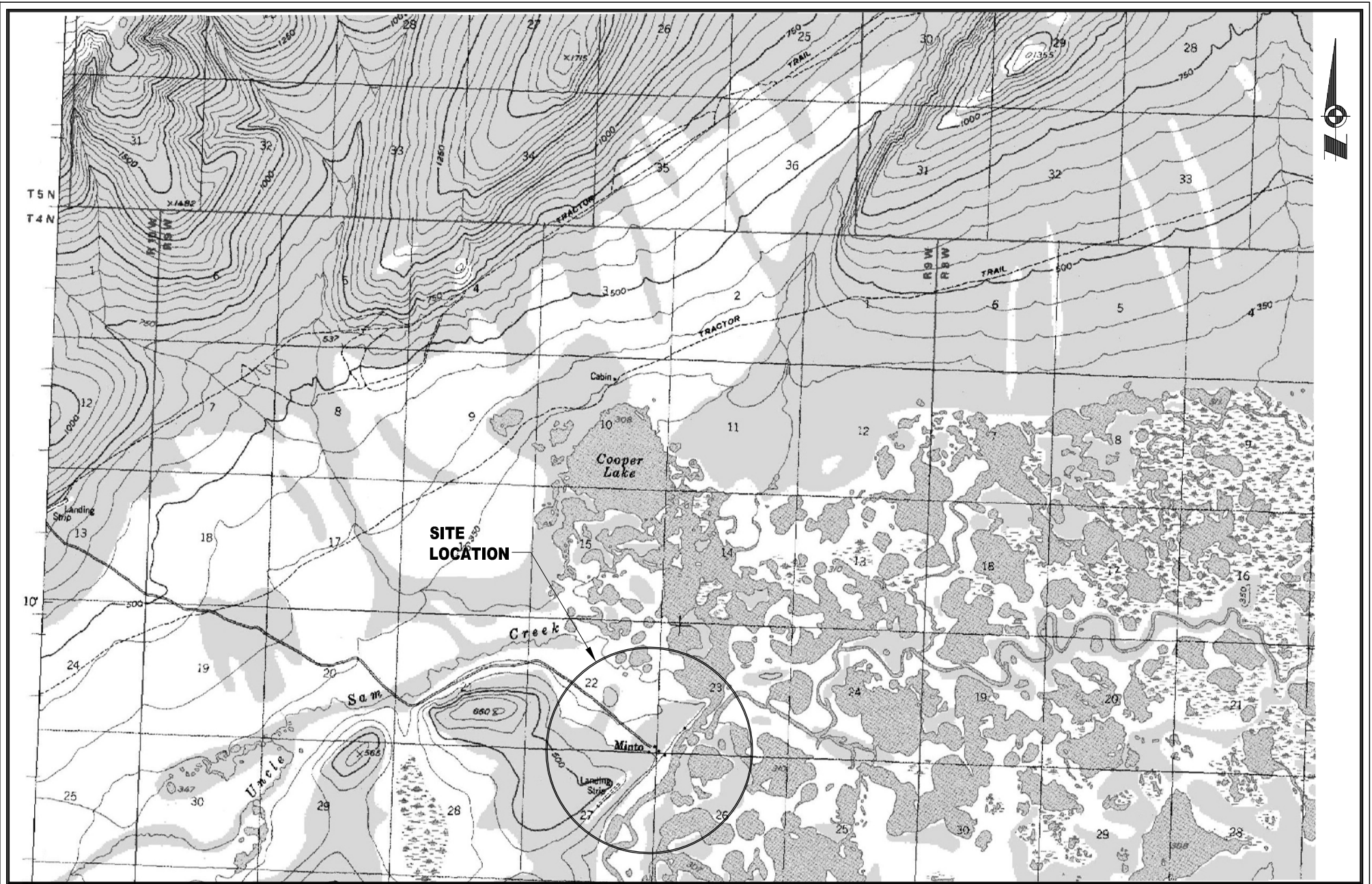
The EPA and the United States Coast Guard (USCG) administer Area Plans for spill contingency response by region throughout the United States. The USCG covers coastal areas, and EPA covers inland areas. In a major spill event, contacting the National Response Center hotline will trigger assistance from the appropriate agency, if needed. Refer to Appendix F for emergency contacts.

APPENDIX A

Figure 1 - Site Location Map

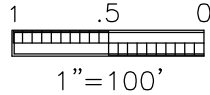
Figure 2 - Facility Diagram

Drawing C1.6 Fuel Oil Piping Valve Diagram



07/15/07
 PROJ. No.
 A03014.01
 FIGURE

DESIGN: JPV
 DRAWN: LAM
 CHECK: JPV

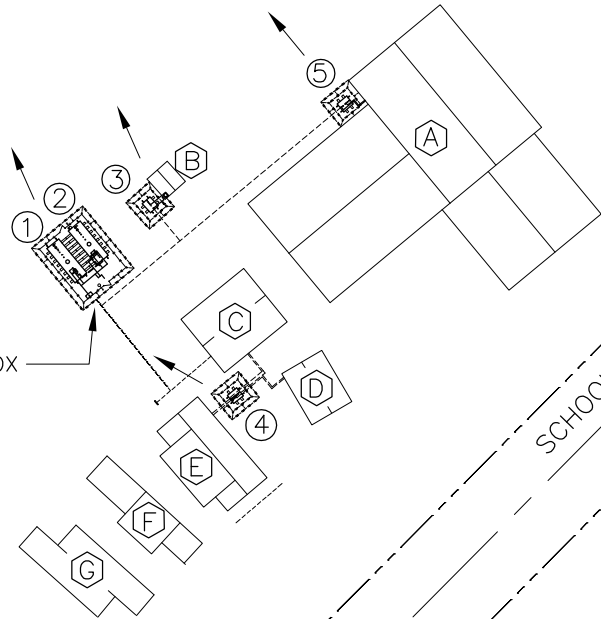


YUKON KOYUKUK SCHOOL DISTRICT
 MINTO SCHOOL
 SITE LOCATION MAP

REFERENCE
 US GEOLOGICAL SURVEY
 LIVNGOOD (A-5) ALASKA, 1951
 MINOR REVISION 1971



TRUCK FILL BOX



TANK NO.	TANK SIZE (GAL.)	TANK CONTENTS
①	8,000	DIESEL
②	8,000	DIESEL
③	1,000	DIESEL
④	1,000	DIESEL
⑤	1,000	DIESEL

NOTES:

1. ALL PIPING BETWEEN TANKS IS UNDERGROUND 2" SCHEDULE 80 WELDED PIPE.
2. SPILL RESPONSE KIT IS LOCATED IN THE VOC ED BUILDING.

← DIRECTION OF FLOW

BLDG. LETTER	BUILDING
Ⓐ	SCHOOL
Ⓑ	GENERATOR
Ⓒ	VOC ED
Ⓓ-Ⓖ	TEACHERS HOUSING

YUKON KOYUKUK SCHOOL DISTRICT
MINTO SCHOOL
FACILITY DIAGRAM

2
FIGURE
PROJ. No.
A03014.01
07/15/07

DESIGN: JPV
DRAWN: LAM
CHECK: JPV

APPENDIX B

**Certification of the Applicability of the
Substantial Harm Criteria**

**Certification of the Applicability of the
Substantial Harm Criteria (40 CFR 112.20(e))**

Facility Name: Yukon Koyukuk School District Minto School

Facility Address: P.O. Box 81

Minto, Alaska 99758

- 1) Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000?
Yes _____ No X
- 2) Does the facility have a total oil storage capacity greater than or equal to 1 million gallons, and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank, plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?
Yes _____ No X
- 3) Does the facility have a total oil storage capacity greater than or equal to 1 million gallons, and is the facility located at a distance such that a discharge from the facility could cause injury to fish, wildlife and sensitive environments?
Yes _____ No X
- 4) Does the facility have oil storage capacity greater than or equal to 1 million gallons, and is the facility located at a distance such that a discharge from the facility would shut down a public drinking water intake?
Yes _____ No X
- 5) Does the facility have a total oil storage capacity greater than or equal to 1 million gallons, and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last five years?
Yes _____ No X

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate and complete.

James P. Vail, PE

Name (please type or print)

Senior Civil Engineer

Title



Signature

7-15-07

Date

APPENDIX C

Facility Inspection Checklists

The following checklists are to be used for monthly and annual facility-conducted inspections. Completed checklist must be signed by the inspector and maintained at the facility, with this SPCC Plan, for at least three years.

Monthly Inspection Checklist

Annual Facility inspection Checklist

Monthly Inspection Checklist

This inspection record must be completed each month except the month in which an annual inspection is performed. Provide further description and comments, if necessary, on a separate sheet of paper and attach to this sheet. ****Any items that received "yes" as an answer must be described and addressed immediately.***

	*Y	N	Description &Comments
<u>Storage tanks:</u>			
Tank surfaces show signs of leakage			
Tanks are damaged, rusted or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Vents are obstructed			
Water/product in interstice of double walled tank			
<u>Piping:</u>			
Valve seals, gaskets, or other appurtenances are leaking			
Pipelines or supports are damaged or deteriorated			
Joints, valves and other appurtenances are leaking			
Buried piping is exposed			
<u>Loading/unloading and transfer equipment:</u>			
Tank containment fill box is damaged			
Soil around tank containment fill box is discolored			
Connections are not capped or blank flanged			
<u>Security</u>			
Fencing, gates, or lighting is non-functional			
Pumps and vales are locked if not in use			
Response Equipment			
Response equipment inventory is complete			

Date: _____

Signature: _____

Annual Facility Inspection Checklist

This inspection record must be completed each year. If any response requires further elaboration, provide comments in the *Description & Comments* space provided. Further description and comments, if necessary, must be provided on a separate sheet of paper and attached to this sheet. ****Any items that received "yes" as an answer must be described and addressed immediately.***

Item	*Y	N	Description & Comments
<i>Storage tanks:</i>			
<i>Tank #1 (8,000 gallon fuel storage tank)</i>			
Tank surfaces show signs of leakage			
Tanks are damaged, rusted or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Vents are obstructed			
Water/product in interstice of double walled tank			
<i>Tank #2 (8,000 gallon fuel storage tank)</i>			
Tank surfaces show signs of leakage			
Tanks are damaged, rusted or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Vents are obstructed			
Water/product in interstice of double walled tank			
<i>Tank #3 - 1,000 gallon intermediate tank at Generator Building</i>			
Tank surfaces show signs of leakage			
Tanks are damaged, rusted or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Vents are obstructed			
Water/product in interstice of double walled tank			

Item	*Y	N	Description & Comments
Tank #4 - 1,000 gallon intermediate tank near Voc Ed Building			
Tank surfaces show signs of leakage			
Tanks are damaged, rusted or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Vents are obstructed			
Water/product in interstice of double walled tank			
Tank #5 - 1,000 gallon intermediate tank at School Building			
Tank surfaces show signs of leakage			
Tanks are damaged, rusted or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Vents are obstructed			
Water/product in interstice of double walled tank			
Tank # 6 - 25 gallon Day Tank located in Generator Building			
Tank surfaces show signs of leakage			
Tanks are damaged, rusted or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Vents are obstructed			
Water/product in interstice of double walled tank			
Tank # 7 - 50 gallon Day Tank located in School Building			
Tank surfaces show signs of leakage			
Tanks are damaged, rusted or deteriorated			
Bolts, rivets, or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			

Item	*Y	N	Description & Comments
Level gauges or alarms are inoperative			
Vents are obstructed			
Water/product in interstice of double walled tank			
Other System Components			
<u>Piping:</u>			
Valve seals, gaskets, or other appurtenances are leaking			
Pipelines or supports are damaged or deteriorated			
Joints, valves and other appurtenances are leaking			
Buried piping is exposed			
<u>Loading/unloading and transfer equipment:</u>			
Tank containment box is damaged			
Soil around tank containment box is discolored			
Connections are not capped or blank flanged			
<u>Security</u>			
Fencing, gates, or lighting is non-functional			
Pumps and vales are locked if not in use			
Response Equipment			
Response equipment inventory is complete			

Annual reminders:

- Hold SPCC Briefing for all oil handling personnel (and update briefing log in the Plan)
- Check contact information for key employees and response/clean up contractor contact information. If not correct, update in the Plan as needed.

Additional Remarks:

Date: _____

Signature: _____

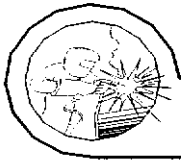
APPENDIX D

Record of Annual Discharge Prevention Briefings and Training

APPENDIX E

Records of Tank Integrity and Pressure Tests

#1



ANCHORAGE TANK & WELDING, INC.

TEST REPORT

JOB NO. 11065 STI NO. _____
UL NO. P34055 TYPE AG SKID MOUNT
TANK CAPACITY 8,000

INNER TANK DIM. (AS BUILT)

I.D. (IN.) 96" LGTH (IN.) 263 1/2
TANK TESTED PER UL 5LB DATE 4-15-05
INITIALS a.d.

OUTER TANK DIM. (AS BUILT)

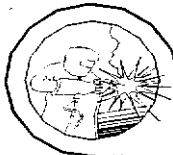
I.D. (IN.) 96 1/2" LGTH (IN.) 276 3/8
TANK TESTED PER UL 510PSI DATE 04-20-05
INITIALS JK.

COATING TESTED Devoe DATE 5-3-5
INITIALS [Signature]

302
236
389

READINGS:

HEADS		SHELL	
1	<u>23</u>	11	<u>21</u>
2	<u>25</u>	12	
3	<u>20</u>	13	
4	<u>20</u>	14	
5	<u>21</u>	15	
6	<u>23</u>	16	
7	<u>22</u>	17	
8	<u>21</u>	18	
9	<u>24</u>	19	
10	<u>22</u>	20	
		21	<u>20</u>
		22	<u>26</u>
		23	<u>23</u>
		24	<u>22</u>
		25	<u>20</u>
		26	<u>18</u>
		27	<u>17</u>
		28	<u>20</u>
		29	<u>17</u>
		30	<u>19</u>
		31	<u>25</u>
		32	<u>22</u>
		33	<u>21</u>



ANCHORAGE TANK & WELDING, INC.

TEST REPORT

JOB NO. 11065-#2 STI NO. _____
 UL NO. P 34059 TYPE DBL WALL AG
 TANK CAPACITY 8,000

INNER TANK DIM. (AS BUILT)

I.D. (IN.) 96" LGTH (IN.) 264"
 TANK TESTED PER UL 5.0PSI DATE 04-22-05
 INITIALS [Signature]

OUTER TANK DIM. (AS BUILT)

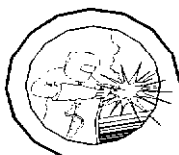
I.D. (IN.) 96 1/4" LGTH (IN.) 276 1/4"
 TANK TESTED PER UL 5.0PSI DATE 04-26-05
 INITIALS [Signature]

COATING TESTED 302 ^{Devoe}
236
389

INITIALS [Signature]
 DATE 05-16-05
 INITIALS [Signature]

READINGS:

HEADS			SHELL		
1	<u>16</u>	11 <u>16</u>	1	<u>15</u>	14 <u>15</u>
2	<u>16</u>	12 <u>19</u>	2	<u>13</u>	15 <u>15</u>
3	<u>15</u>	13 <u>21</u>	3	<u>14</u>	16 <u>17</u>
4	<u>14</u>	14 <u>17</u>	4	<u>12</u>	17
5	<u>13</u>	15 <u>15</u>	5	<u>16</u>	18
6	<u>14</u>	16	6	<u>19</u>	19
7	<u>16</u>	17	7	<u>20</u>	20
8	<u>19</u>	18	8	<u>18</u>	21
9	<u>17</u>	19	9	<u>18</u>	22
10	<u>17</u>	20	10	<u>16</u>	23
			11	<u>16</u>	24
			12	<u>16</u>	25
			13	<u>17</u>	



ANCHORAGE TANK & WELDING, INC.

TEST REPORT

JOB NO. 11066-1 STI NO. _____
 UL NO. P34053 TYPEDBL. SKID MOUNT
 TANK CAPACITY 1,000 GAL.

INNER TANK DIM. (AS BUILT)

I.D. (IN.) 64" LGTH (IN.) 74 1/2"
 TANK TESTED PER UL 5LBS DATE 4/20/05
 INITIALS Rad

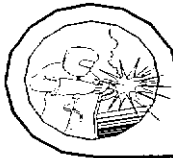
OUTER TANK DIM. (AS BUILT)

I.D. (IN.) 64 3/8" LGTH (IN.) 86"
 TANK TESTED PER UL 5LBS DATE 4/21/05
 INITIALS Rad

COATING TESTED ³⁰² Devoe INITIALS Rad
₂₃₆ DATE 4-28-5
₃₈₉ INITIALS MW

READINGS:

HEADS		SHELL	
1	<u>16</u>	11	<u>20</u>
2	<u>16</u>	12	<u>14 16</u>
3	<u>15</u>	13	<u>23</u>
4	<u>20</u>	14	<u>21</u>
5	<u>19</u>	15	<u>16</u>
6	<u>21</u>	16	<u>24</u>
7	<u>18</u>	17	<u>17</u>
8	<u>18</u>	18	<u>20</u>
9	<u>17</u>	19	<u>19</u>
10	<u>19</u>	20	<u>21</u>
			<u>22</u>
			<u>23</u>
			<u>24</u>
			<u>25</u>
			<u>16</u>



ANCHORAGE TANK & WELDING, INC.

TEST REPORT

JOB NO. 11068-2 STI NO. _____
 UL NO. P 34054 TYPE ULAG DW SKID MT.
 TANK CAPACITY 1000 GAL

INNER TANK DIM. (AS BUILT)

I.D. (IN.) 64" LGTH (IN.) 74 1/4"
 TANK TESTED PER UL 5 PSI DATE 4-20-05
 INITIALS VWT

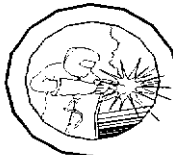
OUTER TANK DIM. (AS BUILT)

I.D. (IN.) 64 3/8" LGTH (IN.) 86 1/4"
 TANK TESTED PER UL 5 PSI DATE 4-21-05
 INITIALS VWT

COATING TESTED ³⁰² Devco INITIALS VWT
²³⁶ DATE 4-28-05
³⁸⁹ INITIALS [Signature]

READINGS:

HEADS		SHELL	
1	<u>14</u>	11	<u>20</u>
2	<u>17</u>	12	<u>19</u>
3	<u>19</u>	13	<u>19</u>
4	<u>19</u>	14	<u>15</u>
5	<u>15</u>	15	<u>18</u>
6	<u>20</u>	16	<u>19</u>
7	<u>18</u>	17	<u>20</u>
8	<u>18</u>	18	<u>21</u>
9	<u>23</u>	19	<u>22</u>
10	<u>26</u>	20	<u>23</u>
		21	<u>24</u>
		22	<u>19</u>
		23	<u>18</u>



ANCHORAGE TANK & WELDING, INC.

TEST REPORT

JOB NO. 11066-#3 STI NO. _____

UL NO. P-34056 TYPE _____

TANK CAPACITY _____

INNER TANK DIM. (AS BUILT)

I.D. (IN.) 64" LGTH (IN.) 75"

TANK TESTED PER UL 5.0PSI DATE 04-21-05

INITIALS JK

OUTER TANK DIM. (AS BUILT)

I.D. (IN.) 64 1/2" LGTH (IN.) 86 1/4"

TANK TESTED PER UL 5LBS DATE 4/26/05

INITIALS AK

COATING TESTED Doone DATE 5-3-05

302
236
389

INITIALS AK

READINGS:

HEADS		SHELL	
1	<u>17</u>	11	<u>18</u>
2	<u>21</u>	12	<u>14 24</u>
3	<u>20</u>	13	<u>15 20</u>
4	<u>18</u>	14	<u>16 20</u>
5	<u>17</u>	15	<u>17</u>
6	<u>23</u>	16	<u>18</u>
7	<u>20</u>	17	<u>19</u>
8	<u>21</u>	18	<u>20</u>
9	<u>23</u>	19	<u>21</u>
10	<u>22</u>	20	<u>22</u>
			<u>23</u>
			<u>24</u>
			<u>25</u>
			<u>22</u>
			<u>22</u>

APPENDIX F

Emergency Contacts

Emergency Contacts List

Approved Discharge or Release Notification Placard

Emergency Contacts List**Local Emergency Agencies:**

Fire/Rescue (Volunteer)	907-889-2206
Police (State Troopers – Galena)	907-656-1233

Yukon Koyukuk School District:

YKSD Superintendent of Schools	907-374-9400
School Principal (on-site Facility Manager)	907-889-2204

Maintenance, Training, Spill Response Contractor:

Rural Alaska Fuel Services (Anchorage Office)	907-562-0285
-----------------------------------------------	--------------

State/Federal:

Alaska Department of Environmental Conservation (ADEC) (State Spill Notification) (After hours)	907-451-2121 800-478-9300
National Response Center (Federal Spill Notification)	800-424-8802
U.S. Environment Protection Agency (EPA Anchorage Office)	907-271-5083
U.S. Coast Guard (Sector Anchorage Office)	907-271-6700

SPCC Plan Prepared by:

PDC Inc., Engineers	907-743-3200
---------------------	--------------

Other:

ADEC Response Equipment (Bethel, Mt. Village, Aniak)	907-269-7648 / 269-7500
State Fire Marshall	907-269-5482
Alaska Div. of Emergency Services	907-428-7000
Alaska Dept. Fish & Game - Fairbanks	907-459-7285
U.S. Fish & Wildlife Service -Anchorage	907-786-3519
State/DNR - Office of History & Archaeology	907-269-8715
State Emergency Response Comm. / SERC	907 465-5050
Weather Report Number	907-458-3700
AK. Rural Comms. System–(T.V. alert broadcast contact)	888-840-0013
AK. Public Radio Network–(Radio alert broadcast contact)	907-277-2776

REPORT ALL

OIL AND HAZARDOUS SUBSTANCE SPILLS

ALASKA LAW REQUIRES REPORTING OF ALL SPILLS

During normal business hours

contact the nearest DEC Area Response Team office:

Central Area Response Team: Anchorage

**phone: 269-3063
fax: 269-7648**

Northern Area Response Team: Fairbanks

**phone: 451-2121
fax: 451-2362**

Southeast Area Response Team: Juneau

**phone: 465-5340
fax: 465-2237**

Outside normal business hours, call: 1-800-478-9300



Alaska Department of Environmental Conservation
Division of Spill Prevention and Response

Alaska Department of Environmental Conservation

Discharge Notification and Reporting Requirements

AS 46.03.755 and 18 AAC 75 Article 3

Notification of a discharge must be made to the **nearest** Area Response Team during working hours:

Anchorage: 269-3063
269-7648 (FAX)

Fairbanks: 451-2121
451-2362 (FAX)

Juneau: 465-5340
465-2237 (FAX)

OR

to the 24-Hour Emergency Reporting Number during non-working hours: **1-800-478-9300**

Notification Requirements

Hazardous Substance Discharges

Any release of a hazardous substance must be reported as soon as the person has knowledge of the discharge.

Oil Discharges

■ TO WATER

- Any release of oil to water must be reported as soon as the person has knowledge of the discharge.

■ TO LAND

- Any release of oil in **excess of 55 gallons** must be reported as soon as the person has knowledge of the discharge.
- Any release of oil in **excess of 10 gallons but less than 55 gallons** must be reported within 48 hours after the person has knowledge of the discharge.
- A person in charge of a facility or operation shall maintain, and provide to the Department on a monthly basis, a written record of any discharge of oil **from 1 to 10 gallons**.

■ TO IMPERMEABLE SECONDARY CONTAINMENT AREAS

- Any release of oil **in excess of 55 gallons** must be reported within 48 hours after the person has knowledge of the discharge.

Special Requirements for Regulated Underground Storage Tank (UST) Facilities*

If your **release detection system** indicates a possible discharge, or if you notice **unusual operating conditions** that might indicate a release, you must notify the Storage Tank Program at the nearest DEC Office **within 7 days**:

Anchorage: (907) 269-7504
Juneau: (907) 465-5200

Fairbanks: (907) 451-2360
Soldotna: (907) 262-5210

*Regulated UST facilities are defined at 18 AAC 78.005 and do not include heating oil tanks.

APPENDIX G

**Alaska Department of Environmental Conservation
Spill Notification Forms**

Oil & Hazardous Substances Spill Notification Form

Oil & Hazardous Materials Final Report Form

Monthly Oil Spill Log Form



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
OIL & HAZARDOUS SUBSTANCES SPILL NOTIFICATION

ADEC SPILL #		ADEC FILE #		ADEC LC					
PERSON REPORTING		PHONE NUMBER		REPORTED HOW? Troopers phone fax					
DATE/ TIME OF SPILL		DATE/TIME DISCOVERED		DATE/TIME REPORTED					
LOCATION/ADDRESS		LAT.	SUBSTANCE TYPE A) CR EHS HS NC PW UNK B) CR EHS HS NC PW UNK		PRODUCT A) B)				
		LONG.							
QUANTITY SPILLED <input type="checkbox"/> gallons <input type="checkbox"/> pounds	QUANTITY CONTAINED <input type="checkbox"/> gallons <input type="checkbox"/> pounds	QUANTITY RECOVERED <input type="checkbox"/> gallons <input type="checkbox"/> pounds	QUANTITY DISPOSED <input type="checkbox"/> gallons <input type="checkbox"/> pounds						
POTENTIAL RESPONSIBLE PARTY C-Plan Holder? YES <input type="checkbox"/> NO <input type="checkbox"/>			FACILITY TYPE						
SOURCE OF SPILL					<input type="checkbox"/> >400 GT Vessel?				
CAUSE OF SPILL (List Primary Cause first)					<input type="checkbox"/> Accident <input type="checkbox"/> Human Factors <input type="checkbox"/> Structural/Mechanical <input type="checkbox"/> Other				
CLEANUP ACTIONS									
DISPOSAL METHODS AND LOCATION									
RESOURCES AFFECTED/THREATENED (Water sources, wildlife, wells, etc.)				AIR	LAND	MARINE	FRESH	SURF. AREA AFFECTED	SURF. TYPE
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
COMMENTS									

DEC USE ONLY

SPILL NAME, IF ANY			NAMES OF DEC STAFF RESPONDING			C-PLAN MGR NOTIFIED YES <input type="checkbox"/> NO <input type="checkbox"/> _____			
DEC RESPONSE <input type="checkbox"/> phone follow-up <input type="checkbox"/> field visit <input type="checkbox"/> took report		CASELOAD CODE <input type="checkbox"/> First and Final <input type="checkbox"/> Open/No LC <input type="checkbox"/> LC assigned			CLEANUP CLOSURE ACTION <input type="checkbox"/> NFA <input type="checkbox"/> Monitoring <input type="checkbox"/> Transferred to CS or STP				
STATUS OF CASE (circle) OPEN CLOSED			DATE CASE CLOSED _____						
COMMENTS:									
REPORT PREPARED BY						DATE			

8. Description of cleanup actions taken:	
9. Estimated amount of: (A) oil or hazardous substance cleaned up: _____ (B) oily or hazardous waste generated: _____	
10. Date, location, and method of ultimate disposal of the oil, hazardous substance and any contaminated materials, including cleanup materials:	
11. Description of actions being taken to prevent recurrence of the discharge:	
12. Other information the department requires to fully assess the cause and impact of the discharge (receipts for disposal if available):	
Signature	Printed name
Date	Title

MAIL OR FAX TO the Closest A.D.E.C. Office below

Anchorage
 Phone: 269-3063
 Fax: 269-7648
 555 Cordova Street
 Anchorage, AK 99501

Fairbanks
 Phone: 451-2121
 Fax: 451-2362
 610 University Ave.
 Fairbanks, AK 99709-3643

Juneau
 Phone: 465-5340
 Fax: 465-2237
 410 Willoughby Ave., Suite 309
 Juneau, AK 99801-1795

DEC USE ONLY

ADEC Project Manager:	ADEC Spill #:
-----------------------	---------------

APPENDIX H

Facility Spill Response Kit Standard Inventory

Spill Response Kit

The School's spill response equipment is stored in the Voc Ed Building. All spill response equipment is to be maintained "operable and ready-for-deployment."

A visual examination and inventory of the School response equipment is to be conducted monthly by the School Principal, or designated alternate, as part of the required fuel system inspection. Equipment maintenance is to be conducted when necessary, and after each deployment exercise to ensure the equipment is operable and compatible.

Spill response equipment maintained by, and available to, the School includes:

CLASS	TYPE / CAPACITY	AMOUNT	LOCATION
SORBENT MATERIAL	Pads - 16"x20"	2 ea. bales	Schl. Voc Ed Bldg.
	Rolls - 140"x30"	2 ea. bales	"
	Boom - 4 ea. 10'x4" sections p.bale	6 ea. bales = 240'	"
	Sweeps 100'x19"	2 bales = 200'	"
STORAGE -CONTINGENCY	95 gal overpack poly drums	3 ea. - 285 gals.	"
	55 gal open-top drum	1 ea. - 55 gals.	"
CONTAINMENT - EARTH-MOVING EQUIPMENT	Grader, backhoe	various	AKDOT-PF, Village Council
PERSONNEL PROTECTIVE GEAR & MISCELLANEOUS	Tyvek suits, gloves, goggles boots, hardhats	4 ea. sets	Schl. Voc Ed Bldg.
	Shovels, rakes,	2 ea.	"
	Garbage/disposal bags	1 roll	"
	Fire extinguishers -portable	5+ ea.	Storage Tank & Schl.

In the event of a significant incident RAFS will provide trained responders and ICS personnel.

Alaska Dept. of Environmental Conservation (269-3063 / 543-3215) has positioned 20' connex boxes of spill response equipment at Aniak, Bethel, Mountain Village, and Toksook Bay. The equipment may be activated by a call to ADEC. The equipment generally includes containment boom, pumps, rope mop skimmer, hoses, generator, light stands, portable storage, and extensive support and personnel protective gear.

A partial list of environmental equipment and supply vendors is on the following page.

A partial list of environmental equipment and supply vendors:

Alaska Safety	907-561-5661
Eagle Enterprises	907-562-2331
Inlet Petroleum Company	907-274-3835
Polar Supply	907-563-5000
Spill Shield International	907-561-6033
Unitech of Alaska	907-349-5142, 800-649-5859
Young's Firehouse	907-344-5312, 800-478-5312
Northwest Pump & Equipment	907-522-9595, Fax: 907-522-9696

APPENDIX I

Material Safety Data Sheet

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Diesel Fuel; **SYNONYMS:** Diesel Fuel #1 - LS Dyed; Diesel Fuel #2 - DSL2, Off-Road, On-Road, HS-Dyed, LS-Dyed, LS-Undyed, LS Diesel; Winter Blend; Fuel Oil #2 - Diesel Fuel Oil, No. 2 Diesel Fuel Oil, Non-Hwy Dyed; Diesel Fuel - Premium, Super, Supreme, Powerblend, Non-Taxed LS Dyed; Additized; Russian Summer; Arctic; -10 and -35 F pour point depressed diesel; Lago; Burner Oil; Aleyska Turbine Fuel; Distillate - Mid; No. 2; Marine - Marine Gas Oil, MGO, DFM; Navy Fuel; F76; Marine Diesel Fuel (MDO); Intermediate Marine Fuel IF-30 to IF-460; IMF; RR Diesel Fuel - No. 40, No. 35, RR Power Fuel HS Off-Road; CARB Diesel Fuel - On-Road, Off-Road, Tax Exempt Blends, TF3, 10%; EPA - LS Diesel Fuel Dyed, Undyed, Off-Road HS Dyed - Ultra Low Sulfur Diesel



GENERAL USE: Fuel

PRODUCT DESCRIPTION: Liquid. Color varies, clear, yellow (pale to straw), red, blue, blue-green color. Petroleum odor.

MANUFACTURER'S NAME Tesoro Petroleum Companies, Inc.		DATE PREPARED: September 16, 2004	Page 1 of 5
		SUPERSEDES: May 23, 2002	
ADDRESS (NUMBER, STREET, P.O. BOX) 300 Concord Plaza Drive		TELEPHONE NUMBER FOR INFORMATION Tesoro Call Center (877) 783-7676	
(CITY, STATE AND ZIP CODE) San Antonio, TX 78216-6999		COUNTRY USA	EMERGENCY TELEPHONE NUMBER Chemtrec (800) 424-9300
DISTRIBUTOR'S NAME Same			
ADDRESS (NUMBER, STREET, P.O. BOX)		TELEPHONE NUMBER FOR INFORMATION	
(CITY, STATE AND ZIP CODE)		EMERGENCY TELEPHONE NUMBER	

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	% (by volume)	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
			PPM	MG/M3	PPM	MG/M3		
Contains or May Contain:								
Diesel Fuel #2	68476-34-6	0 - 100	not established					
Fuel Oil #2	68476-30-2	0 - 100	not established					
Tower Residues, atmospheric	64741-45-3	0 - 100	not established					
Residues (petroleum), Vacuum	64741-56-6	0 - 100	not established					
Heavy catalytically cracked distillate (e,f,g)	64741-61-3	0 - 100	0.2		0.2			
Light thermally cracked distillate (h)	64741-59-9	0 - 100	not established					
Catalytically cracked clarified oil (e,g)	64741-62-4	0 - 100	0.2		0.2			
Xylene (mixed) (a,b,c)	1330-20-7	0 - 1.1	100	435	100		Yes	1000
Trimethylbenzene 1,2,4 (a)	95-63-6	0 - 1.2	25	125			Yes	
Nonane	111-84-2	0 - 1.1	200	1050	200			
Sulfur, precipitated	7704-34-9	0 - 5.0	15					
Naphthalene (a,b,c,d)	91-20-3	0 - 1	10	50	10		Yes	100
Red Dye	not specified	Trace						

(a,c) See Section 15

(b) Indicates that the Resource Conservation and Recovery Act (RCRA) has determined the waste for this chemical is listed as hazardous and must be handled according to regulations in 40 CFR 260-281.

(d) Product is listed or defined as a marine pollutant in IMDG Code or 49 CFR 172.101 Appendix B, List of Marine Pollutants and must be classified as an Environmentally Hazardous Substance, Class 9, in addition to any other defined hazards for this product.

(e) California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986, chemicals known to the state to cause cancer or reproductive toxicity. A person in the course of doing business must warn others who may consume, come into contact with, or otherwise be exposed to this chemical.

(f) IARC has determined that residual fuels are possibly carcinogenic to humans. Handling procedures and safety precautions in the MSDS should be followed to minimize employee's exposure.

(g) IARC has determined there is sufficient evidence for the carcinogenicity of catalytically cracked oils.

(h) Kidney damage may result following aspiration pneumonitis. The results of animal bioassays on middle distillate fuels show that prolonged dermal contact produces a weak to moderate carcinogenic activity.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Diesel Fuel; SYNONYMS: Diesel Fuel #1 - LS Dyed; Diesel Fuel #2 - DSL2, Off-Road, On-Road, HS-Dyed, LS-Dyed, LS-Undyed, LS Diesel; Winter Blend; Fuel Oil #2 - Diesel Fuel Oil, No. 2 Diesel Fuel Oil, Non-Hwy Dyed; Diesel Fuel - Premium, Super, Supreme, Powerblend, Non-Taxed LS Dyed; Additized; Russian Summer; Arctic; -10 and -35 F pour point depressed diesel; Lago; Burner Oil; Aleyska Turbine Fuel; Distillate - Mid; No. 2; Marine - Marine Gas Oil, MGO, DFM; Navy Fuel; F76; Marine Diesel Fuel (MDO); Intermediate Marine Fuel IF-30 to IF-460; IMF; RR Diesel Fuel - No. 40, No. 35, RR Power Fuel HS Off-Road; CARB Diesel Fuel - On-Road, Off-Road, Tax Exempt Blends, TF3, 10%; EPA - LS Diesel Fuel Dyed, Undyed, Off-Road HS Dyed - Ultra Low Sulfur Diesel

September 16, 2004

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Various colored liquid, potentially hazardous vapors. Flammable as defined by DOT and TDG. May be classified by DOT as Combustible. Classified as Combustible by OSHA. Can cause eye and skin irritation upon contact. Inhalation of vapors can cause anesthetic effect leading to death in poorly ventilated areas. Hazard symbols for this product - Xn Risk Phrases - R10 20 36/38

POTENTIAL HEALTH EFFECTS

INHALATION: High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise.

SKIN: Brief contact may cause slight irritation; prolonged contact may cause moderate irritation or dermatitis.

EYES: High vapor concentration or contact may cause irritation and discomfort.

INGESTION: May result in vomiting; aspiration of vomitus into the lungs must be avoided; DO NOT induce vomiting. Minute amounts aspirated into the lungs can produce severe lung injury, chemical pneumonitis, pulmonary edema or death.

CARCINOGENICITY NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No
 This product contains a mixture of petroleum hydrocarbons called middle distillates. Because of this broad description, many products are considered middle distillates yet they are produced by a variety of different petroleum refining processes. Toxicology data developed on some middle distillates found that they caused positive responses in some mutagenicity tests and caused skin cancer when repeatedly applied to mice over their lifetime.

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

EYES: Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

INGESTION: DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs; seek immediate medical attention. Vomiting may be induced only under the supervision of a physician.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED) 100° - 199° F (38° - 93° C) TCC	FLAMMABLE LIMITS LEL: 0.3% AUTOIGNITION TEMPERATURE: 350° - 625° F	UEL: 10.0% NFPA CLASS: II
---------------------------------------------------------------	--------------------------------------------------------------------------	------------------------------

GENERAL HAZARDS: Product is considered combustible. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

EXTINGUISHING MEDIA
Carbon dioxide, water fog, dry chemical, chemical foam

FIRE FIGHTING PROCEDURES
Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers can explode due to buildup of pressure when exposed to extreme heat. Do not use direct stream of water on pool fires as product may reignite on water surface. Caution - Material is combustible!

HAZARDOUS COMBUSTION PRODUCTS
Smoke, fumes, oxides of carbon

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Diesel Fuel; SYNONYMS: Diesel Fuel #1 - LS Dyed; Diesel Fuel #2 - DSL2, Off-Road, On-Road, HS-Dyed, LS-Dyed, LS-Undyed, LS Diesel; Winter Blend; Fuel Oil #2 - Diesel Fuel Oil, No. 2 Diesel Fuel Oil, Non-Hwy Dyed; Diesel Fuel - Premium, Super, Supreme, Powerblend, Non-Taxed LS Dyed; Additized; Russian Summer; Arctic; -10 and -35 F pour point depressed diesel; Lago; Burner Oil; Aleyska Turbine Fuel; Distillate - Mid; No. 2; Marine - Marine Gas Oil, MGO, DFM; Navy Fuel; F76; Marine Diesel Fuel (MDO); Intermediate Marine Fuel IF-30 to IF-460; IMF; RR Diesel Fuel - No. 40, No. 35, RR Power Fuel HS Off-Road; CARB Diesel Fuel - On-Road, Off-Road, Tax Exempt Blends, TF3, 10%; EPA - LS Diesel Fuel Dyed, Undyed, Off-Road HS Dyed - Ultra Low Sulfur Diesel

Page 3 of 5

September 16, 2004

SECTION 6 - ENVIRONMENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: COMBUSTIBLE. Evacuate and ventilate area; confine and absorb into absorbent; place material into approved containers for disposal; for spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 and SARA Title III, Section 313 40 CFR 372 for detailed instructions concerning reporting requirements. Do not discharge into lakes, ponds, streams or public waters.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: This material is combustible. It should be stored in tightly closed containers in a cool, well ventilated area. Vapor may form explosive mixtures in air. All sources of ignition should be controlled. This material may be classified as COMBUSTIBLE by DOT unless transported by vessel or aircraft. Refer to 49 CFR 173.120. Keep this and other chemicals out of reach of children. Avoid inhaling concentrated fumes or vapors.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**ENGINEERING CONTROLS**

The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment. See Section 2 for Component Exposure Guidelines.

PERSONAL PROTECTION:

RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs.

EYE PROTECTION: Protective eyeglasses or chemical safety goggles. Refer to 29 CFR 1910.133 or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyebath nearby

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (PSIA) < 0.5 PSIA @ 100° F	VAPOR DENSITY (AIR = 1) > 1
SPECIFIC GRAVITY @ 60° F (WATER = 1) 0.78 - 0.955	EVAPORATION RATE (WATER = 1) < 1
SOLUBILITY IN WATER Negligible, below 1.0%	FREEZING POINT - 51° F (- 46° C)
pH Not determined	APPEARANCE AND ODOR Liquid, clear, yellow (pale to straw), red, blue, blue-green, petroleum odor.
BOILING RANGE 30 - 806° F (1.1 - 430° C)	PHYSICAL STATE Liquid
VISCOSITY 1.7 - 40.0 cS @ 100°F	VOLATILE ORGANIC COMPOUNDS (Total VOC's) 6.75 lbs / gallon

SECTION 10 - STABILITY AND REACTIVITY

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures, open flames
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.	
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Diesel Fuel; SYNONYMS: Diesel Fuel #1 - LS Dyed; Diesel Fuel #2 - DSL2, Off-Road, On-Road, HS-Dyed, LS-Dyed, LS-Undyed, LS Diesel; Winter Blend; Fuel Oil #2 - Diesel Fuel Oil, No. 2 Diesel Fuel Oil, Non-Hwy Dyed; Diesel Fuel - Premium, Super, Supreme, Powerblend, Non-Taxed LS Dyed; Additized; Russian Summer; Arctic; -10 and -35 F pour point depressed diesel; Lago; Burner Oil; Aleyska Turbine Fuel; Distillate - Mid; No. 2; Marine - Marine Gas Oil, MGO, DFM; Navy Fuel; F76; Marine Diesel Fuel (MDO); Intermediate Marine Fuel IF-30 to IF-460; IMF; RR Diesel Fuel - No. 40, No. 35, RR Power Fuel HS Off-Road; CARB Diesel Fuel - On-Road, Off-Road, Tax Exempt Blends, TF3, 10%; EPA - LS Diesel Fuel Dyed, Undyed, Off-Road HS Dyed - Ultra Low Sulfur Diesel

September 16, 2004

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Ingredients (All products may not be listed if information is not available)	CAS #	EINECS #	LD50 of Ingredient (Species and Route)	LC50 of Ingredient (Species)
Contains or May Contain:				
Diesel Fuel #2	68476-34-6	270-676-1	Not established	Not established
Fuel Oil #2	68476-30-2	270-671-4	Not determined	Not determined
Tower Residues, atmospheric	64741-45-3	265-045-2	Not established	Not established
Residues (petroleum), Vacuum	64741-56-6	265-057-8	Not established	Not established
Heavy catalytically cracked distillate (e,f,g)	64741-61-3	265-063-0	Not established	Not established
Light thermally cracked distillate (h)	64741-59-9	265-060-4	Not established	Not established
Catalytically cracked clarified oil (e,g)	64741-62-4	265-064-6	Not established	Not established
Xylene (mixed) (a,b,c)	1330-20-7	215-535-7	4300 mg / kg Oral - rat	5000 ppm / 4H Inhalation - rat
Trimethylbenzene 1,2,4 (a)	95-63-6	202-436-9	5 gm / kg Oral - mouse	18 gm / m3 / 4H Inhalation - rat
Nonane	111-84-2	203-913-4	218 mg / kg Oral - mouse	3200 ppm / 4H Inhalation - rat
Sulfur, precipitated	7704-34-9	231-722-6	Not available	Not available
Naphthalene (a,b,c,d)	91-20-3	202-049-5	1780 mg / kg Oral - rat	Not established
Red Dye	not specified	not specified	Not determined	Not determined

SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Release of this product should be prevented from contaminating soil and water and from entering drainage and sewer systems. U.S.A. regulations require reporting spills of this material that could reach any surface waters. The toll free number for the U.S. Coast Guard National Response Center is (800) 424-8802. Naphthalene (91-20-3) one of the ingredients in this mixture is classified as a Marine Pollutant.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce hazardous vapors or fumes in a closed disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Diesel Fuel

DOT HAZARD CLASS / Pack Group: 3 / III

REFERENCE: 49 CFR 173.150, .203, .242

UN / NA IDENTIFICATION NUMBER: NA 1993

LABEL: Flammable

HAZARD SYMBOLS: F

IATA HAZARD CLASS / Pack Group: Not applicable

IMDG HAZARD CLASS: Not applicable

RID/ADR Dangerous Goods Code: Not applicable

UN TDG Class / Pack Group: Not applicable

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Diesel Fuel; SYNONYMS: Diesel Fuel #1 - LS Dyed; Diesel Fuel #2 - DSL2, Off-Road, On-Road, HS-Dyed, LS-Dyed, LS-Undyed, LS Diesel; Winter Blend; Fuel Oil #2 - Diesel Fuel Oil, No. 2 Diesel Fuel Oil, Non-Hwy Dyed; Diesel Fuel - Premium, Super, Supreme, Powerblend, Non-Taxed LS Dyed; Additized; Russian Summer; Arctic; -10 and -35 F pour point depressed diesel; Lago; Burner Oil; Aleyska Turbine Fuel; Distillate - Mid; No. 2; Marine - Marine Gas Oil, MGO, DFM; Navy Fuel; F76; Marine Diesel Fuel (MDO); Intermediate Marine Fuel IF-30 to IF-460; IMF; RR Diesel Fuel - No. 40, No. 35, RR Power Fuel HS Off-Road; CARB Diesel Fuel - On-Road, Off-Road, Tax Exempt Blends, TF3, 10%; EPA - LS Diesel Fuel Dyed, Undyed, Off-Road HS Dyed - Ultra Low Sulfur Diesel

September 16, 2004

SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories

Acute health, flammable

313 Reportable Ingredients:

(a) A "Yes" in the SARA TITLE III column in Section 2 indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (Comprehensive Response Compensation and Liability Act)

(c) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture > 24,000 lbs) or greater amounts, according to 40 CFR 302.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number are listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL and may or may not be listed in Section 2 of this document. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

EC Risk Phrases

- R10 Flammable
- R20 Harmful by inhalation
- R36/38 Irritating to eyes and skin.
- R51 Toxic to aquatic organisms.
- R65 Damaging to lungs when swallowed

SYMBOL(S) REQUIRED FOR LABEL

Harmful



EC Safety Phrases

- S23 Do not breathe vapor
- S25 Avoid contact with eyes
- S28 After contact with skin, wash immediately with plenty of soap and water.
- S29 Do not empty into drains
- S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this label.

SECTION 16 - OTHER INFORMATION

Values do not reflect absolute minimums and maximums; these values are typical which may vary from time to time.

HMIS HAZARD RATINGS

HEALTH	1	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	2	1 = SLIGHT	4 = EXTREME
PHYSICAL HAZARD	0	2 = MODERATE	
PERSONAL PROTECTIVE EQUIPMENT	B	Safety Glasses, Gloves	

REVISION SUMMARY:

This MSDS has been revised in the following sections:

Section 1, add name; Section 3, Hazard Symbols; Section 11, add EINECS #; Section 15, TSCA text, add symbol; Section 16, HMIS Text

MSDS Prepared by: Chem-Tel, Inc.
1305 N. Florida Ave.
Tampa, Florida USA 33602
(800) 255-3924 Outside USA (813) 248-0573

DISCLAIMER: The information supplied in this data sheet is obtained from currently available sources, which are believed to be reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THE INFORMATION OR THE RESULTS TO BE OBTAINED FROM ITS USE.

Handling, storage, use or disposal of the above-referenced product is beyond our control and may occur under conditions with which we are unfamiliar. FOR THESE AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM ANY LIABILITY FOR DAMAGE, INJURY AND COST ARISING FROM OR RELATED TO THE USE OF THE PRODUCT.

PRODUCT NUMBER (s): BHPP-1052, BHPP-1054, MSDS-1054, 2, 3, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 39, 46, 75, 88, 89, 90, 94, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 108, 109, 111, 116, 117, 118, 282, 290, 291, 294, 304, 319, 351, 352, 1000, 1001, 1071, 1076

APPENDIX J

Landfarming Information

Landfarming Information

The following information was obtained from the *Handbook of Environmental Management and Technology Second Edition* by Gwendolyn Holmes Burke, Ben Ramnarine Singh and Louis Theodore, page 470.

“Landfarming, used for organic wastes, relies on nutrients in the soil to convert wastes into nonhazardous materials that may enrich the soil.”

“Landfarming is one of several terms used to describe the process of disposing of hazardous and nonhazardous wastes in the upper layer of the soil. The process is not a new one; it has been used for almost 30 years in the disposal of oily petroleum wastes. The application has increased in usage over the years and is now employed to treat up to 50% of these petroleum wastes as well as a number of other biodegradable wastes.

Landfarming has a number of advantages: It can be an effective and low-cost disposal method; it is an environmentally safe and simple process not dependent upon processing equipment; and it is a natural form of waste disposal which can, in some cases, improve the fertility and nature of the soil. There are also some limitations to landfarming. The bulk of the waste disposed of must contain organic components. It is not recommended for use with inorganics, particularly when the pH of the waste is below 7. Wastes containing materials that could pollute the air, groundwater, or the soil itself are not candidates for this method. Some wastes may need pretreatment to make them suitable for Landfarming; this additional treatment adds to the total cost of the waste disposal.”