



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Supervisor Fred Newlin  
Town of Lewiston  
Box 330  
Lewiston, NY 14092

Dear Mr. Newlin:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties
- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

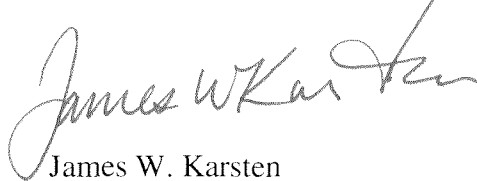
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board  
Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company

Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Supervisor Merton Wiepert  
Town of Porter  
3265 Creek Road  
Youngstown, NY 14174

Dear Mr. Wiepert:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties
- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

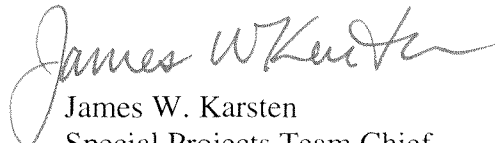
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board  
Ms. Becky Zayatz, CWM Chemical Services, LLC

Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District





## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

01 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. Christopher Clayton  
U.S. Department of Energy  
Office of Legacy Management, LM-40  
1000 Independence Avenue, SW  
Washington, DC 20585-0002

Dear Mr. Clayton:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

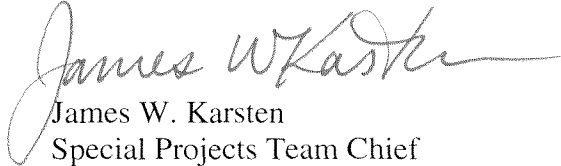
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,

  
James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. Alan Steinberg  
Regional Administrator  
USEPA, Region-II  
290 Broadway  
New York, NY 10007-1866

Dear Mr. Steinberg:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties
- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

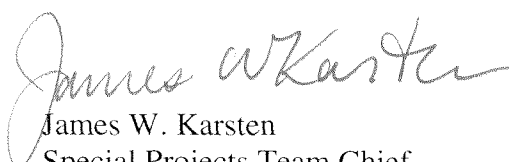
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board  
Ms. Becky Zayatz, CWM Chemical Services, LLC

Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District





## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. Paul A. Giardina  
Chief, Radiation & Indoor Air Branch  
Environmental Protection Agency, Region II  
290 Broadway, 28<sup>th</sup> Floor  
New York, NY 10007

Dear Mr. Giardina:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- b. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.


The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. Nidal Azzam  
U.S. Environmental Protection Agency  
Region II  
290 Broadway, 28<sup>th</sup> Floor  
New York, NY 10007

Dear Mr. Azzam:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board  
Ms. Becky Zayatz, CWM Chemical Services, LLC

Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District





## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

7 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. Mike Basile  
U.S. Environmental Protection Agency, Region II  
Western NY Public Information Office  
185 Exchange Street  
Buffalo, NY 14202

Dear Mr. Basile:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

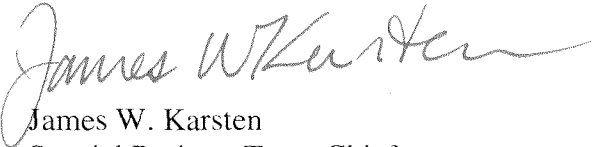
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,

  
James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. Pete Grannis  
Commissioner  
NYS Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-1011

Dear Mr. Grannis:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties
- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board  
Ms. Becky Zayatz, CWM Chemical Services, LLC

Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District





## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. Ed Dassatti, P.E.  
Acting Director, Div. of Solid & Hazardous Materials, 9<sup>th</sup> Floor  
NYS Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-7250

Dear Mr. Dassatti:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Ms. Barbara Youngberg  
Chief, Radiation Section  
New York State Dept. of Environmental Conservation  
625 Broadway  
Albany, NY 12233

Dear Ms. Youngberg:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Ms. Becky Zayatz, CWM Chemical Services, LLC

Mr. James Goehrig, Modern Disposal Company

Mr. John Hildebrand, Occidental Chemical Corporation

Mr. Mark Agle, National Grid

Mr. F. Warren Kahn, Esq., Lewiston Porter School District

Dr. Joe Gardella, Lewiston Porter School District





## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 1997

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. John Mitchell  
Environmental Radiation Specialist  
Bureau of Radiation, Div. of Solid and Hazardous Waste  
NYS Department of Environmental Conservation  
625 Broadway, 8th Floor  
Albany, NY 12233

Dear Mr. Mitchell:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

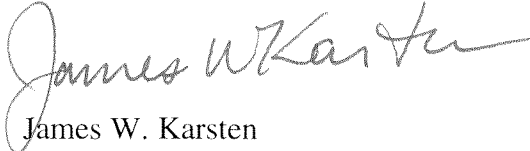
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,

  
James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. Kent Johnson  
NYS Department of Environmental Conservation  
Division of Solid and Hazardous Materials  
Bureau of Hazardous Waste and Remediation Mgmt.  
625 Broadway  
Albany, NY 12233

Dear Mr. Johnson:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

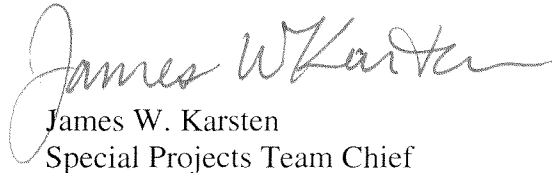
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District





## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. Matt Forcucci  
NYS Department of Health  
Bureau of Environmental Radiation Protection  
584 Delaware Avenue  
Buffalo, NY 14202

Dear Mr. Forcucci:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Abby M. Snyder  
Regional Director  
NYSDEC, Region 9 Office  
270 Michigan Avenue  
Buffalo, NY 14203

Dear Ms. Snyder:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

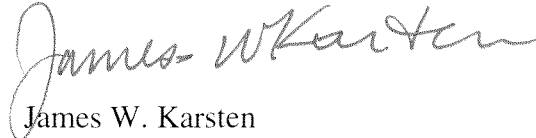
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District





## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. Dan Stapleton  
Public Health Director  
Niagara County Health Department  
5467 Upper Mountain Road  
Lockport, NY 14094

Dear Mr. Stapleton:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

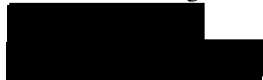
07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Community LOOW Project

Mr. Scott King



Dear Mr. King:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties
- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

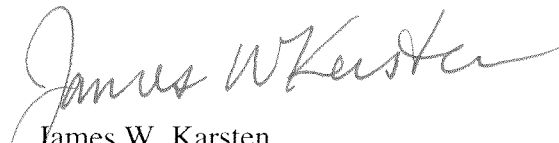
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board  
Ms. Becky Zayatz, CWM Chemical Services, LLC

Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District





## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. Walt Garrow  
Chairman, LOOW RAB

Dear Mr. Garrow:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties
- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

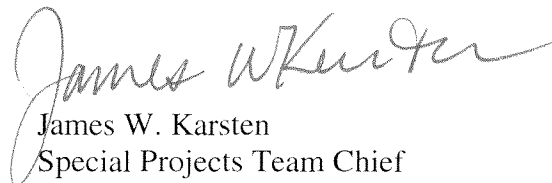
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Ms. Becky Zayatz, CWM Chemical Services, LLC

Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

CWM Chemical Services LLC.  
Ms. Becky Zayatz  
1550 Balmer Road  
Model City, NY 14107

Dear Ms. Zayatz:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties
- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

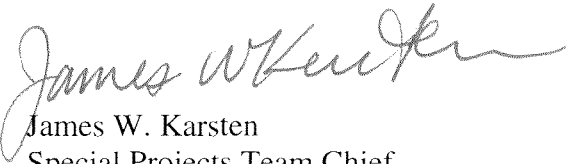
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,

  
James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District





## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

7 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Modern Disposal Company  
Mr. James Goehrig  
4746 Model City Road  
P.O. Box 209  
Model City, New York 14107

Dear Mr. Goehrig:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

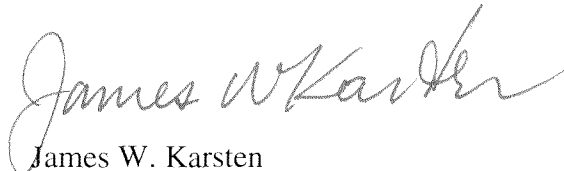
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project

Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board  
Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

67 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Occidental  
John W. Hildebrand, Director  
Real Estate Department  
5005 LBJ Freeway  
Dallas, TX 75244-6119

Dear Mr. Hildebrand:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

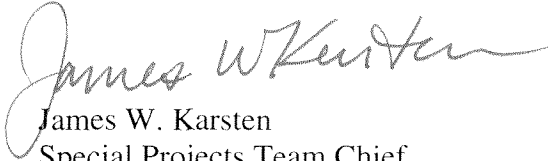
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project

Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board  
Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District





## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

National Grid  
Attn: Mark Agle  
144 Kensington Avenue  
Buffalo, NY 14214

Dear Mr. Agle:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties
- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.


The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,



James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board

Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District  
Dr. Joe Gardella, Lewiston Porter School District



## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Dr. Joe Gardella  
SUNY Buffalo  
Department of Chemistry  
Natural Sciences Complex  
Buffalo, NY 14260-3000

Dear Dr. Gardella:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties

- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

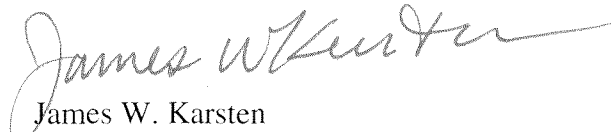
The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,

  
James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project

Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board  
Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation  
Mr. Mark Agle, National Grid  
Mr. F. Warren Kahn, Esq., Lewiston Porter School District





## DEPARTMENT OF THE ARMY

BUFFALO DISTRICT, CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207-3199

REPLY TO  
ATTENTION OF

07 DEC 2007

Special Projects Team

SUBJECT: Public Release of the Remedial Investigation Report for the Niagara Falls Storage Site, Niagara Falls, New York

Mr. F. Warren Kahn  
[REDACTED]

Dear Mr. Kahn:

The US Army Corps of Engineers (USACE), Buffalo District is pleased to provide this Remedial Investigation Report for the Niagara Falls Storage Site. The purpose of this document is to identify the nature and extent of contamination and to quantify potential human health and ecological risks at the Niagara Falls Storage Site (NFSS) resulting from past federal activity under the nation's early atomic energy program. This document has been internally reviewed and approved for public release by the USACE at this time.

Also provided with this letter are three fact sheets providing additional information on the USACE project at the NFSS. These include an updated project fact sheet (Attachment-1), the key findings of the NFSS Remedial Investigation Report (Attachment-2) and the status of USACE technical and decision documents required as part of our environmental investigation at the NFSS (Attachment-3).

The Remedial Investigation Report for the Niagara Falls Storage Site documents the findings of a significant eight year investigative effort. The report consists of three main components:

- a. An analysis of the nature and extent of environmental contamination at the NFSS and adjacent properties
- b. A groundwater model evaluating the potential fate and transport of contaminants in groundwater at the NFSS and off-site migration to adjacent properties
- c. An assessment of potential human health risks and ecological risks resulting from exposure to the environmental contamination at the NFSS

The key findings of our remedial investigation are summarized in Attachment-2 to this letter. Most significant among them are the following:

- a. There remains no imminent threat to the public from the radioactive residues and wastes stored at the site or from contaminated soils or groundwater on the site
- b. Areas of chemical and radiological contamination have been identified outside the boundaries of the NFSS property. None of these areas pose an imminent threat to human health or safety. They include:
  - Several small areas (a few inches in diameter) in the ditch west of the NFSS displaying surface soil readings two to three times the natural background radiation levels.
  - Elevated uranium was detected in groundwater near railroad tracks used by the Former LOOW and MED / AEC operations. While elevated, the levels of radioactivity were very low and did not exceed USEPA Maximum Contaminant Levels (MCLs) for total uranium in drinking water or USDOE criteria.
  - Chemical (PCE / TCE) plumes exist in groundwater on both NFSS and also off-site on CWM property. There is no definitive link between plumes crossing the property boundary.
- c. The baseline human health risk assessment model indicates there are potential long term human health risks to persons who are on site and exposed to chemical and radiological contamination.

The Buffalo District will address these findings in greater detail through a variety of community outreach products and activities to include public information sessions. Due to the length and complexity of the report, we will allow several months for the public to read and evaluate the document prior to the public information sessions. We anticipate the first session will be held in March 2008. We welcome comments and questions from the public so that we may include these topics in our presentations and outreach products.

This document is a product of the USACE environmental response project conducted under the authority of the Formerly Utilized Sites Remedial Action Program (FUSRAP). USACE is the lead federal agency executing FUSRAP. USACE conducts FUSRAP projects in accordance with the governing federal law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLA defines the process by which the federal government responds to potential environmental contamination from past federal activities. Additional information is available at our public website:

<http://www.lrb.usace.army.mil/derpfuds/loow-nfss/index.htm>

If you have any questions please contact the Project Manager, Mr. William E. Kowalewski, P.E., US Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207-

3199. Additionally, the Buffalo District has established a toll-free telephone number (1-800-833-6390) and email address (fusrap@usace.army.mil) for public outreach.

Sincerely,

  
James W. Karsten  
Special Projects Team Chief

Attachments:

1. Fact Sheet - NFSS Project
2. Fact Sheet - Key Findings of the NFSS RIR
3. Fact Sheet - NFSS CERCLA Document Status

Enclosure:

Remedial Investigation Report Niagara Falls Storage Site, December 2007

Distribution:

Honorable Louise M. Slaughter, Representative in Congress  
Honorable Charles Schumer, United States Senator  
Honorable Hillary Rodham Clinton, United States Senator  
State Senator, George D. Maziarz  
State Assemblywoman, Francine DelMonte  
Supervisor Fred Newlin, Town of Lewiston  
Supervisor Merton Wiepert, Town of Porter  
Mr. Christopher Clayton, United States Department of Energy, Legacy Management  
Mr. Alan Steinberg, United States Environmental Protection Agency, Region-II  
Mr. Paul Giardina, United States Environmental Protection Agency, Region-II  
Mr. Nidal Azzam, United States Environmental Protection Agency, Region-II  
Mr. Mike Basile, United States Environmental Protection Agency, Region-II  
Mr. Pete Grannis, New York State Department of Environmental Conservation  
Mr. Edwin Dassatti, New York State Department of Environmental Conservation  
Ms. Barbara Youngberg, New York State Department of Environmental Conservation  
Mr. John Mitchell, New York State Department of Environmental Conservation  
Mr. Kent Johnson, New York State Department of Environmental Conservation  
Ms. Abby Snyder, New York State Department of Environmental Conservation  
Mr. Matt Forcucci, New York State Department of Health  
Mr. Dan Stapleton, Niagara County Health Department  
Mr. Scott King, Niagara County Health Department Community LOOW Project  
Mr. Walt Garrow, Lake Ontario Ordnance Works Restoration Advisory Board  
Ms. Becky Zayatz, CWM Chemical Services, LLC  
Mr. James Goehrig, Modern Disposal Company  
Mr. John Hildebrand, Occidental Chemical Corporation

Mr. Mark Agle, National Grid

Dr. Joe Gardella, Lewiston Porter School District