FINAL REPORT EPA BROWNFILDS CLEAN-UP FORMER HOUSING AUTHORITY BUILDING 633 CRAZY HORSE STREET LOWER BRULE, SOUTH DAKOTA GEOTEK #16-620

submitted to



Lower Brule Sioux Tribe – Environmental Protection Office 187 Oyate Circle Lower Brule, South Dakota 57548

July 12, 2017



GEOTEK ENGINEERING & TESTING SERVICES, INC.

605-335-5512 Fax 605-335-0773

July 12, 2017

Environmental Protection Office Lower Brule Sioux Tribe 187 Oyate Circle Lower Brule, SD 557548

Ms. Mary Jane Gourneau, Brownfields Coordinator Attn:

Subj: Final Report - EPA Brownfields Clean-up Former Housing Authority Building 633 Crazy Horse Street Lower Brule, South Dakota GeoTek #16-620

Dear Ms. Gourneau:

GeoTek Engineering & Testing Services, Inc. is pleased to submit this report of the Brownfields Clean-up of the Former Housing Authority Building site under the EPA Brownfield Clean-up Grant awarded to the Lower Brule Sioux Tribe (LBST). Our work was performed in accordance with the Lower Brule Sioux Tribe's authorization of our July 6, 2016 contract for consulting services. We are transmitting three (3) copies of our report.

Thank you for the opportunity of providing our services on this project. Please contact our office if you have any questions regarding the project or the report.

GeoTek Engineering & Testing Services, Inc.

Daniel R Hanson Daniel R. Hanson, PE General Manager PE/CPRR #4829

TABLE OF CONTENTS

1.0	INTRODUCTION1
2.0	BACKGROUND
3.0	PROJECT DESIGN DEVELOPMENT1
4.0	CLEAN-UP CONTRACTOR PROCUREMENT
5.0	HAZARDOUS MATERIALS REMOVAL
5.1 5.2	GENERAL
6.0	ASBESTOS ABATEMENT
6.1 6.2	GENERAL
7.0	SITE RESTORATION
8.0	CONCLUSIONS
9.0	STANDARD OF CARE
10.0	REMARKS
<u>FIGU</u>	IRES

1 SANITARY SEWER SERVICE CAP LOCATION

APPENDICES

- A CLEAN-UP PHOTOS
- **B** HAZARDOUS MATERIALS REMOVAL DOCUMENTATION
- C ASBESTOS ABATEMENT DOCUMENTATION

FINAL REPORT - EPA BROWNFIELDS CLEAN-UP FORMER HOUSING AUTHORITY BUILDING 633 CRAZY HORSE STREET LOWER BRULE, SOUTH DAKOTA GEOTEK #16-620

1.0 INTRODUCTION

GeoTek Engineering & Testing Services, Inc. (GeoTek) is pleased to submit this final report of the EPA Brownfields Clean-up of the Former Housing Authority Building located at 633 Crazy Horse Street in Lower Brule, South Dakota.

GeoTek was selected to provide the services of a Qualified Environmental Profession by the Lower Brule Sioux Tribe – Environmental Protection Office based on a Request for Proposal process. A contract for consulting services was signed between the Lower Brule Sioux Tribe and GeoTek on July 20, 2016.

2.0 BACKGROUND

We understand the Former Housing Authority Building is a single story slab-on-grade structure constructed in the early 1960s. The building has a footprint of about 2100 square feet. The building was used by the Housing Authority and briefly by the Tribal Police. The building has been vacant since 2010.

An "Environmental Site Assessment Transaction Screen" was completed for the project in December of 2012. A "Phase II Environmental Site Assessment" was completed for the site in August 2013. We understand the Lower Brule Sioux Tribe was successful in being awarded a US EPA Brownfield Clean-up Grant to demolish and restore the site of the Former Housing Authority building for future use.

3.0 PROJECT DESIGN DEVELOPMENT

The design of the project was based on a combination of meetings, conference calls, site visits and a community outreach. The community outreach included a September 15, 2016 lunch-n-learn in Lower Brule. Transite sub-slab heat ducting was identified during a site visit.

The design of the project also took into account the "Phase II ESA", the "Work Plan for CERCLA Clean-up Cooperative Agreement", the "Final Analysis of Brownfields Clean-up Alternatives (ABCA)" and the Cooperative Agreement.

Based on information collected during these design development activities, the clean-up work was broken down into three separate tasks. These included 1) Hazardous Material Removal, 2) Asbestos Abatement and 3) Demolition to Access Asbestos Material.

A Quality Assurance Project Plan (QAPP) was not deemed necessary for the project because of the contaminants of concern and planned clean-up.

4.0 <u>CLEAN-UP CONTRACTOR PROCUREMENT</u>

Plans and specifications were developed for each of the three clean-up tasks. A competitive procurement process was used to hire contractors for all three phases of the clean-up work. This was done by placing "Advertisement for Bids" notices in Chamberlain, South Dakota Sun and Sioux Falls, South Dakota Argus Leader newspapers on September 28, 2016 and October 5, 2016.

The bids were publically opened on October 12, 2016. Three or four bids were received for each of the three clean-up tasks. Each clean-up task was awarded to the lowest responsible bidder.

The hazardous material removal and asbestos abatement tasks were awarded to New Horizons, LLC of Lincoln, Nebraska. The demolition to access asbestos was awarded to Doug O'Bryan Contracting, Inc. of Martin, South Dakota. Contracts between the Lower Brule Sioux Tribe and New Horizons, LLC and Doug O'Bryan Contracting, Inc for the three clean-up tasks were signed prior to the work proceeding.

The selected contractors were subject to the requirements of the Lower Brule Sioux Tribal Office (TERO) Ordinance.

The results of the clean-up are outlined below.

5.0 <u>Hazardous Materials Removal</u>

5.1 General

GeoTek provided a final visual clearance survey following the removal of hazardous and potentially hazardous materials at the referenced site. The visual survey was conducted following removal of the materials on November 11, 2016. GeoTek (Ms. Tracy Michel) conducted the clearance observations.

5.2 Observations

The following hazardous and potentially hazardous materials were to be removed per the bid documents and building survey (See Table 1). Between the time of the building survey and the hazardous materials removal activities the site was vandalized and many items were no longer present. Removal of the hazardous materials was conducted by New Horizons, LLC from November 7 to 11, 2016. Photos of the removals and vandalism are in Appendix A. The contractor's removal documentation is provided in Appendix B.

LOCATION	MATERIALS	APPROXIMATE QUANTITY	ITEM FATE
Room 1	Central A/C Unit	1	vandalized – missing
Room 2	Door Closer	1	solid waste disposal (no oil inside)
Room 2	Fluorescent Ballast	1	recycled
Room 2	Fluorescent Bulb Debris	<2 pounds	solid waste disposal
Room 3	Bath Fan	1	solid waste disposal ¹
Room 3	Fluorescent Bulb Debris	<2 pounds	solid waste disposal
Room 4	Exit Sign	1	recycled
Room 4	Fluorescent Ballast	2	recycled
Room 5	Fluorescent Ballast	1	recycled
Room 6	Door Closer	1	solid waste disposal (no oil inside)
Room 6	Exit sign	1	recycled
Room 6	Fluorescent Ballast	1	recycled
Room 7	Water Heater	1	vandalized – missing
Room 8	Fluorescent Ballast	1	recycled
Room 8	Electrical Service	N/A	vandalized – missing
Room 9	Fluorescent Ballast	1	recycled
Room 10	Fluorescent Ballast	1	recycled
Room 10	Refrigerator	1	vandalized – missing
Room 10	Cleaning Supplies	N/A	solid waste disposal
Room 11	Fluorescent Ballast	2	recycled
Room 11	5 Gallon Pail Corrosive Chem.	1	hazardous waste disposal
Room 12	Bath Fan	1	solid waste disposal ¹
Room 13	Fluorescent Ballast	4	recycled
Room 13	Aerosol Spray Can	1	solid waste disposal
Room 14	Fire Extinguisher	1	vandalized – missing
Room 14	Fluorescent Ballast	1	recycled
Room 15	Gas Furnace	1	vandalized – missing
Room 16	Fluorescent Bulb	4	recycled
Room 16	Fluorescent Ballast	2	recycled
Room 17	Fluorescent Ballast	1	recycled
Room 18	Fluorescent Ballast	1	recycled
Room 19	Circuit Breaker	1	vandalized – missing
Room 20	Fluorescent Bulb	6	vandalized – missing
Room 20	Fluorescent Bulb Debris	<2 pounds	solid waste disposal
Room 20	Surge Protector	1	vandalized – missing
Room 21	Fluorescent Bulb Debris	<2 pounds	solid waste disposal
Room 21	Fluorescent Ballast	6	recycled
Room 21	Fluorescent Bulb	4	vandalized – missing
Room 21	Petroleum Hydrocarbon Spray	1	vandalized – missing
Notes: ¹ Remov	ved following asbestos abatement	of ceiling texture on 1	

Table 1: Hazardous and Potentially Hazardous Materials

GeoTek personnel (Tracy Michel, PE) mobilized to the site on November 11 and December 1, 2016 to observe that the removals had been completed. The fate of the listed materials is shown in Table 1. Remaining hazardous or potentially hazardous materials were not observed in the building area. The visual clearance therefore passed.

6.0 ASBESTOS ABATEMENT

6.1 General

GeoTek provided a final visual clearance survey following the removal of asbestos containing materials at the referenced site. The visual survey was conducted following removal of asbestos containing materials on December 11, 2012 and May 2, 2017. GeoTek (Ms. Tracy Michel) conducted the clearance observations

6.2 Observations

Identified asbestos containing ceiling texture and black roof sealant were removed per the bid documents and asbestos building survey. Sub-slab asbestos transite pipe was removed after the demolition to access the pipe had been completed. In addition, a change order issued November 22, 2016 authorized the removal of 650 square feet of floor tile on an exterior concrete slab. Table 2 details the removed materials, quantities, and removal dates. Photos of the removals are provided in Appendix A.

Tuble 2. Theorem Via Mateman, Quantities and Dates					
Material Description	Material Location	Asbestos Content	Friable	Approx. Quantity	Removal Date
ceiling texture	throughout	2-3% chrysotile	yes	2100 ft ²	
black sealant	roof, hot water heater vent	10% chrysotile	no	10 ft	Nov 28 to Dec 1, 2016
9x9 tan vinyl floor tile	exterior slab	3% chrysotile	no	650 ft^2	1, 2010
transite pipe	sub-slab heat ducting	10% chrysotile 3% crocidolite	no	300 ft	Apr 25 to May 1, 2017

Table 2: Asbestos Removal Materials, Quantities and Dates

GeoTek personnel (Tracy Michel, SD Inspector #7093) mobilized to the site following removal to observe the abatement areas. Remaining asbestos materials listed above, dust, or debris were not observed in the areas of asbestos abatement during final visual observations. The visual clearances therefore passed.

Asbestos ceiling texture, black sealant, and floor tile waste were transported to the Tri-County landfill on December 5, 2016 for disposal. The below floor transite pipe was disposed at the Tri-County Landfill on May 12, 2017. The contractor's removal documentation is provided in Appendix C.

7.0 SITE RESTORATION

Following removal of the sub-slab tranisite piping the remaining building foundation elements were removed. The sanitary sewer service was capped at the location shown on Figure 1. The water service utility company could not identify the shutoff location so the water service line was not capped at the shut-off valve. The tranisite pipe and foundation excavations were then backfilled and compacted. Topsoil was imported and the site was seeded. Photos of the restored site area included in Appendix A.

8.0 CONCLUSIONS

Based on our observations it is our opinion that the identified hazardous materials have been removed from the site. In our opinion, the clean-up is protective of human health and the environment. The site is ready for redevelopment without institutional controls or long term monitoring.

9.0 STANDARD OF CARE

The services performed by GeoTek Engineering & Testing Services, Inc. (GeoTek) on this project have been conducted with that level of care and skill ordinarily exercised by reputable members of the profession, practicing in the same locality under similar budget and time constraints. No other warranty is expressed or implied.

10.0 <u>REMARKS</u>

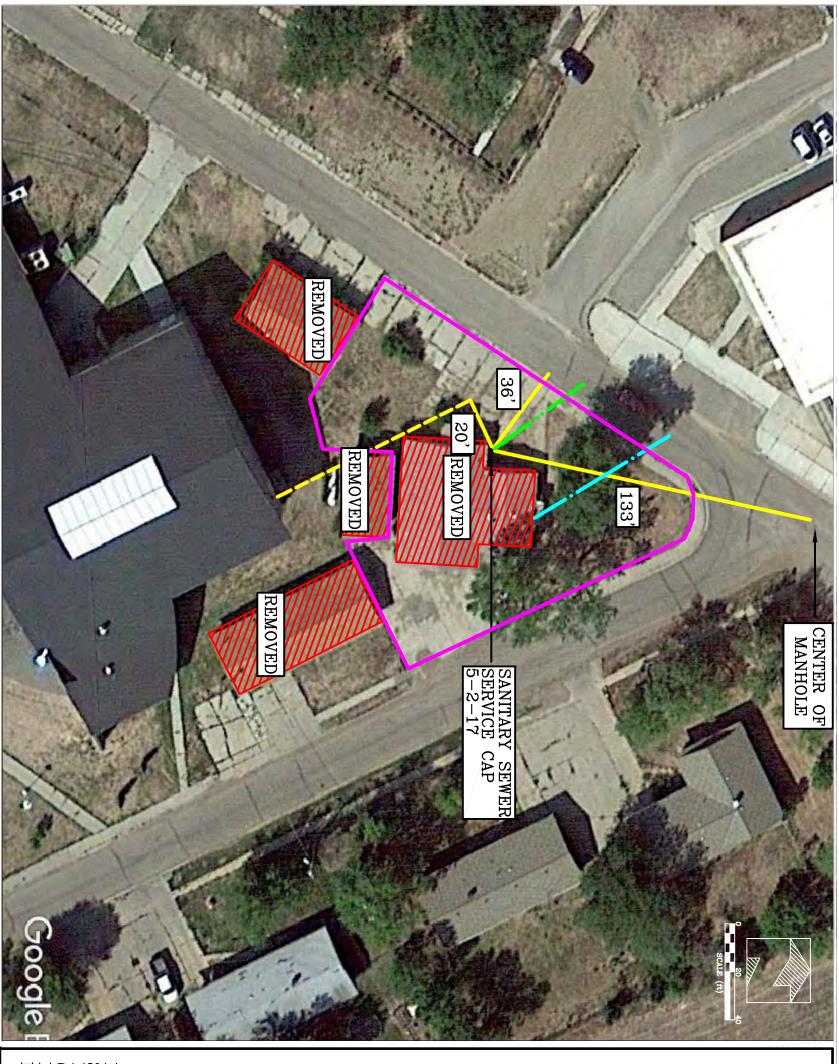
GeoTek Engineering & Testing Services, Inc. appreciated the opportunity to provide this proposal. Please contact us it you have any questions.

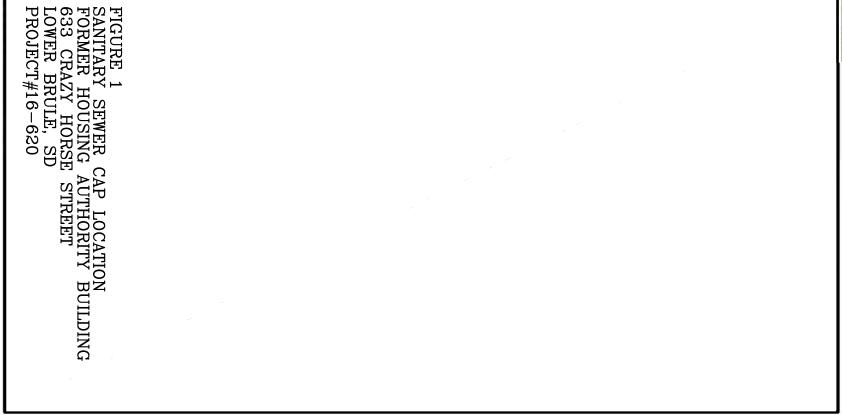
GEOTEK ENGINEERING & TESTING SERVICES, INC.

Tracy A. Michel, PE Senior Project Manager SD Asbestos Building Inspector #7093

Daniel R Hanson, PE Vice President/General Manager PE/CPRR #4829

APPENDIX A Clean-up Photos







Ceiling texture removal (typical). Texture was well adhered and full ceiling removal was more time efficient than texture-only removal.



The water line with ceiling texture overspray was fully removed.



Ceiling removal was completed throughout the interior.



Floor tile removal on the exterior slab. The mastic was not asbestos containing.



Building demolition to expose sub-slab transite pipe.



Transite pipe removal.



Transite pipe wrapped in preparation for collection and disposal.



Transite pipe wrapped in preparation for collection and disposal.



Fluorescent light ballasts collected for recycling.



Exit signs and door closers. Exit signs were recycled. Door closers were opened and did not contain oil. The door closers were disposed as regular solid waste.



5-gallon pail of corrosive material was placed in an overpack drum and disposed as hazardous waste.



Fluorescent bulbs and ballasts were removed.



Only 5 fluorescent bulbs were found in the structure. These were recycled.



Cleaning supplies were disposed as regular solid waste.



Electrical panels were removed by vandals prior to hazardous materials removal.



The furnace was removed by vandals prior to hazardous materials removal.



The water heater was removed by vandals prior to hazardous materials removal.



Final grading of topsoil



Topsoil placed and graded

APPENDIX B HAZARDOUS MATERIALS REMOVAL DOCUMENTATION



1201 D Street

Lincoln, NE 68502

402-261-8130

Hazardous Material Removal

Lower Brule Sioux Tribe Former Housing Authority Building 633 Crazy Horse Street

Lower Brule, South Dakota

- 1. Supervisor Daily Logs
- 2. Daily Sign-In Sheets
- 3. Hazardous Material Disposal Documentation

SUPERVISOR DAILY LOGS

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DAILY SIGN IN SHEETS



DAILY SIGN IN SHEET

Project:	Date: 11-8-16
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Personal protective equipment checklist (check required PPE)		
Hard hat	Respiratory (describe type above)	
Safety glasses w/sideshields	Hand protection	
Shield/goggles/added face protection	Hearing protection	
Foot protection	Clothing (long pants, long sleeves)	

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DAILY SIGN IN SHEET

Project:	Date: 11-9-16
Project Manager:	Reviewer:

PRINTED NAME	SIGNATURE
Louie Winston Levoy Tharman	Kerry Thompson
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Levoy Tharman	herory Human

Personal protective equipment checklist (check required PPE)						
Hard hat	Respiratory (describe type above)					
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Project:	Date: 11-10-16
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Louie Winston	hS

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Personal protective equipment checklist (check required PPE)					
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Safety glasses w/sideshields	Hand protection				
Shield/goggles/added face protection	Hearing protection				
Foot protection	Clothing (long pants, long sleeves)				

HAZARDOUS MATERIAL DISPOSAL DOCUMENTATION

BILL OF LADING

GENERATOR

161118-44390



CUSTOMER

ANGEL ENVIRONMENTAL LLC PO BOX 32 GREENWOOD, MO 64034		LOWER BRULE SIOUX TRIBE 187 OYATE CIRCLE LOWER BRULESD, SD 57548							
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RECEIVED, subject to the classification and regulations in effect on the date of issue of this Bill of Lading, the property described above in apparent good order except as noted (exact contents of packages unknown). RECEIVED, subject to the terms and conditions of A-TEC Recycling, Inc. Service Agreement or Contract of Services. All lamps to be processed for recycling within 24 hours after receipt at the destination A-TEC Recycling Facility as indicated in the Service Agreement or Contract of Services.

This is to certify that the above described lamps/ballasts were picked up or delivered as noted for recycling. The packages contain the materials as described and do not contain any non-described material.

P.O. BOX 57580 • PLEASANT HILL • IOWA 50317 • 515-244-7357 • 800-551-4912 • FAX 515-263-6970

CERTIFICATE OF RECYCLING

A-TEC Recycling Inc. hereby certifies that the following described materials were recycled in accordance with all applicable Federal, State and County Regulations on the date as indicated.

> Processing Date: 8-Dec-16

Receiving Number: 161118-44390

Items Received and Recycled

Quantity 26

5

Description Ballasts - non PCB Fluorescent 4' and Under

Certificate issued to: ANGEL ENVIRONMENTAL LLC PO BOX 32 GREENWOOD, MO 64034

> A-TEC RECYCLING

Generator: LOWER BRULE SIOUX TRIBE 187 OYATE CIRCLE LOWER BRULESD, SD 5754-8

BY Lany Young

DATE December 8, 2016

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UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number (Continuation Sheet)	22. Page 2		est Tracking Nu	mber -	THE APPLOY	ed.:OMB N	10:2
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LOVER BRULE STOUX TRIBE 633 CRAZY HORSE STREET , LOVER BRULE SD 57548			1.1	27 g.		14	
25. Transporter D3 Company Name NORTRU, LLC			U.S. EPA ID				
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27a. 27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, HM and Packing Group (II any)	28. Conta	inam	Line man	The set			
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Stericycle - Solvent Recovery LLC RCRA Land Disposal Restriction Notification Form EZ - Page 1 of 2

Generator:	LOWER BRULE SIOUX TRIBE: FORMER HOUSE AUTHORITY BLDG.	US EPA ID No.	CESQG
Profile No.	813214-00 813215-00	Manifest Doc. No.	009466233FLE

The wastes identified on this form are subject to the land disposal restrictions of 40 CFR Part 268. The wastes do not meet the treatment standards specified in Part 268, Subpart D. Pursuant to 40 CFR 268.7(a), the required information applicable to each waste is identified below (check all boxes that apply). If D001-D043 boxes are checked generator must determine the underlying hazardous constituents [268.9(a)]. Complete and attach Form UC to address underlying hazardous constituents as defined at 268.2(i) (unless D001 nonwastewaters treated by CMBST, RORGS, OR POLYM of 268.42, Table 1):

Treatability Group: Wastewater Nonwastewater (Wastewaters contain less than 1% filterable solids and less than 1% Total Organic Carbon)
 D001 Ignitable (except for High TOC) managed in non-CWA/non-CWA-equivalent/non Class I SDWA systems D001 Ignitable (except for High TOC) managed in CWA/ CWA-equivalent/Class I SDWA systems D001 High TOC Ignitable (greater than 10% total organic carbon)
 D002 Corrosive managed in non-CWA/non-CWA-equivalent/non Class I SDWA systems D002 Corrosive managed in CWA/ CWA-equivalent/Class I SDWA systems D002 Corrosive managed in CWA/ CWA-equivalent/Class I SDWA systems D003 Reactive Sulfides based on 261.23(a)(5)
 D003 Reactive Cyanides based on 261.23(a)(2),(3) and (4) managed in non-CWA/non-CWA-equivalent/non Class I D003 Water Reactives based on 261.23(a)(2),(3) and (4) managed in CWA/ CWA-equivalent/Class I SDWA systems D003 Other Reactives based on 261.23(a)(1)(6)
 D004 Arsenic D005 Barium D006 Cadmium D006 Cadmium-containing batt
 D007 Chromium D008 Lead

		5 Barium 🗌 D006 Cadm	ium D006 Cadmium-containing batt
	D007 Chromium D008	Lead D008 Lead	acid batteries RLEAD
	D009 High mercury inorganic (>260 mg/kg total), including incin	erator residue and residues from RMERC
	D009 High-mercury organic (>	260 mg/kg total), not including inc	inerator residue
	D009 Low-mercury (<260 mg/l		
	D009 All D009 wastewaters		
	D010 Selenium		
1	D011 Silver		
_	D012 Endrin	D023 o-Cresol	D033 Hexachlorobutadiene
	D013 Lindane	D024 m-Cresol	D034 Hexachloroethane
	D014 Methoxychlor	D025 p-Cresol	D035 Methyl ethyl ketone
	D015 Toxaphene	D026 Cresols (Total)	D036 Nitrobenzene
	D016 2,4-D	D027 p-Dichlorobenzene	D037 Pentachlorophenol
	D017 2,4,5-TP (Silvex)	D028 1,2-Dichloroethane	D038 Pyridine
	D018 Benzene	D029 1,1-Dichloroethylene	D039 Tetrachloroethylene
	D019 Carbon tetrachloride	D030 2,4-Dinitrotoluene	D040 Trichloroethylene
	D020 Chlordane	D031 Heptachlor	D041 2,4,5-Trichlorophenol
	D021 Chlorobenzene	D032 Hexachlorobenzene	D042 2,4,6-Trichlorophenol

If this shipment carries additional waste codes that are not addressed above, identify them here (subcategory, if any, can be determined from the 268.40 table of treatment standards (e.g., low-TOC ignitabes). If listed code treatment standard does not address a characteristic, identify characteristic above (56 FR 3872):

D043 Vinyl chloride

EPA Waste Code	Subcategory (if applicable)	EPA Waste Code	Subcategory (if applicable)

D022 Chloroform

Stericycle - Solvent Recovery LLC RCRA Land Disposal Restriction Notification EZ - Page 2 of 2

In addition, the following wastes are included in this shipment:

F001-F005 spent solvents. (If this box is checked, complete the F001-F005 section on this form. Check the hazardous waste number(s) that applies, and identify the constituents likely to be present in the waste.)

The wastes identified on this form are subject to the land disposal restrictions of 40 CFR Part 268. The wastes do not meet the treatment standards specified in 40 CFR Part 268.40. The required information applicable to each waste is identified below (check all boxes that apply) If listed code treatment standard does not address a characteristic, identify characteristic above(56 FR 3872):

F001-F005 Spent Solvents

Check the box(es) that applies; identify the individual constituents likely to be present.

Ha	zardous waste description	Regulated hazardous constituents	
	F001 Spent halogenated solvents used in degreasing	Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
	F002 Spent halogenated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	<i>o</i> -Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
	F003 Spent non-halogenated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone
	F004 Spent non-halogenated solvents	<i>m</i> -Cresol <i>p</i> -Cresol Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)
	F005 Spent non-halogenated solvents	Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene

*The treatment standards for carbon disulfide, cyclohexanone, and methanol nonwastewaters are based on the TCLP and apply to spent solvent nonwastewaters containing only one, two, or all three of these constituents. The treatment standards for these three constituents do not apply when any of the other F001-F005 constituents are present in the waste.

This shipment includes F039 multisource leachate, as identified on the attached sheet(s). [If this box is checked, attach Form UC to identify individual underlying hazardous constituents likely to be present in the waste.]

This shipment includes hazardous debris. [If this box is checked, complete and attach Form HD.]

This shipment includes contaminated soil. [If this box is checked, complete and attach Form CS.]

As an authorized representative of the generator named above and being familiar with the waste through analysis and testing or through knowledge of the waste, all the information submitted in this Land Disposal Restriction notification form, is true and correct to the best of my knowledge.

Signature

Date

Printed Name

Stericycle - Solvent Recovery LLC RCRA Land Disposal Restriction Notification Form UC

Generator:	LOWER BRULE SIOUX TRIBE: FORMER HOUSE AUTHORITY BLDG.	US EPA ID No.	CESQG
Profile No.	813214-00 813215-00	Manifest Doc. No.	009466233FLE

In accordance with 40 CFR 268.7(a) and 268.9 special requirements, the underlying hazardous constituents must be addressed in this waste. Per 268.2(i), "underlying hazardous constituent" means any constituent listed in 268.48, Table UTS—Universal Treatment Standard which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. Refer to Form-EZ (attached) for the waste code(s), treatability group, and subcategory applicable to this waste.

Please check the appropriate box(es):

- ☑ This shipment includes D001 [other than 1) high-TOC ignitables, or 2) other ignitables that will be combusted or recovered], D002, D003 (other than reactive cyanides/sulfides and unexploded ordnance/other explosive devices subject to an emergency response), D004-D011 (other than those waste subcategories that have specified treatment methods in 268.40), and/or D012-D043 (other than D012-D017 wastewaters) characteristic wastes. The wastes will not be managed in CWA/CWA-equivalent/Class I SDWA systems and are indicated below. The underlying hazardous constituents in the waste, as defined in 268.2(i), are identified below or on the following page(s).
- □ This shipment includes F039 multisource leachate. The individual constituents likely to be present are identified below or on the following page(s).
- □ This shipment includes contaminated soil subject to 268.49. The constituents subject to treatment as decried in 268.49(d) are identified below or on the following page(s).
- □ I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that there are no underlying hazardous constituents reasonably expected to be present in this waste.
- □I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that underlying hazardous constituents are present in this waste. The underlying hazardous constituents are identified below and/or on the accompanying pages:

The determination of underlying hazardous constituents was based on:

Generator's knowledge of the waste

□ Analysis

As an authorized representative of the generator named above and being familiar with the waste through analysis and testing or through knowledge of the waste, all the information submitted in this Land Disposal Restriction notification form, is true and correct to the best of my knowledge.

Stephen I	Stow	Suff MM	11-17.	-16
Printed Name I. Organic Constituents:		Signature	D	Pate
A2213	4-Aminobiphenyl	Benzo(k)fluoranthene	Butyl benzyl phthalate	p-Chloroaniline
Acenaphthene	Aniline	Benzo(g,h,i)perylene	Butylate	Chlorobenzene
Acenaphthylene	Anthracene	Benzo(a)pyrene	2-sec-Butyl-4,6-	Chlorobenzilate
Acetone	Aramite	alpha-BHC	dinitrophenol/Dinoseb	2-Chloro-1,3-butadiene
Acetonitrile	🗌 Barban	beta-BHC		Chlorodibromomethane
Acetophenone	Bendiocarb	delta-BHC	Carbenzadim	Chloroethane
2-Acetylaminofluorene	Bendiocarb	gamma-BHC	Carbofuran	□ bis(2-
Acrolein	Benomyl	Bromodichloromethane	Carbofuran phenol	Chloroethoxy)methane
Acrylamide	Benz(a)anthracene	Bromomethane/Methyl	Carbon disulfide	bis(2-Chloroethyl)ether
Acrylonitrile	Benzal chloride	bromide	Carbon tetrachloride	2-Chloroethyl vinyl ether
Aldicarb sulfone	Benzene	4-Bromophenyl phenyl ether	Carbosulfan	Chloroform
Aldrin	Benzo(b)fluoranthene)	n-Butyl alcohol	Chlordane (alpha and	bis(2-

Stericycle - Solvent Recovery LLC	
RCRA Land Disposal Restriction Notification Form	I UC

	KCKA Land	Disposal Restriction Notifica	tion Form UC
p-Chloro-m-cresol	Diethylene glycol,		N-Nitrosopiperidine
Chloromethane/Methyl	dicarbamate	Hexachlorocyclopentadiene	N-Nitrosopyrrolidine
chloride	Dimethylaminoazobenzene	Hexachloroethane	Oxamyl
2-Chloronaphthalene	2-4-Dimethyl phenol	Hexachloropropylene	Parathion
2-Chlorophenol	Dimethyl phthalate	HxCDDs (All Hexachlorodibenzo-p-	Total PCBs (sum of all
3-Chloropropylene	Dimetilan	dioxins)	PCB isomers, or all Aroclors)
Chrysene	Di-n-butyl phthalate	HxCDFs (All Hexachlorodibenzofurans)	Pebulate
o-Cresol	1.4-Dinitrobenzene	Indeno (1,2,3-c,d) pyrene	Pentachlorobenzene
m-Cresol (difficult to	4.6-Dinitro-o-cresol		PeCDDs (All
distinguish from p-cresol)		L todomethane	Pentachlorodibenzo-p- dioxins)
p-Cresol (difficult to distinguish from m-cresol)	2,4-Dinitrophenol	3-lodo-2-propynyl п- butylcarbamate	PeCDFs (All
m-Cumenyl	2,4-Dinitrotoluene	Isobutyl alcohol	Pentachlorodibenzofurans)
methylcarbamate	2,6-Dinitrotoluene		Pentachloroethane
Cycloate	Di-n-octyl phthalate	□ Isolan .	Pentachloronitrobenzene
Cyclohexanone	Di-n-propylnitrosamine		Pentachlorophenol
o,p'-DDD	1,4-Dioxane		Phenacetin
DDD p,p'-DDD	Diphenylamine (difficult	L Kepone	Phenanthrene
o,p'-DDE	to distinguish from diphenylnitrosamine)	Methacrylonitrile	Phenol
p,p'-DDE	Diphenylnitrosamine	L. Methanol	o-Phenylenediamine
o,p'-DDT	(difficult to distinguish from diphenylamine)	L Methapyrilene	Phorate
D p.p'-DDT	1,2-Diphenylhydrazine	Methomyl	Phthalic acid
Dibenz(a,h)anthracene		Methoxychlor	
		Methyl ethyl ketone	Phthalic anhydride
Dibenz(a,e)pyrene	Dithiocarbamates (total)	Methyl isobutyl ketone	Physostigmine
1,2-Dibromo-3- chloropropane	Endosulfan I	Methyl methacrylate	Physostigmine salicylate
□ 1,2-	Endosulfan II	Methyl methansulfonate	Promecarb
Dibromoethane/Ethylene dibromide	Endosulfan sulfate	Methyl parathion	Pronamide
Dibromomethane		3-Methylchlolanthrene	Propham
m-Dichlorobenzene	Endrin aldehyde	4,4-Methylene bis(2-	Propoxur
o-Dichlorobenzene	EPTC	chloroaniline	Prosulfocarb
p-Dichlorobenzene	Ethyl acetate	Methylene chloride	D Pyrene
	Ethyl benzene	Metolcarb	Pyridine
Dichlorodifluoromethane	Ethyl	Mexacarbate	Safrole
1,1-Dichloroethane	cyanide/Propanenitrile	Molinate	Silvex/2,4,5-TP
1,2-Dichloroethane	L Ethyl ether	Naphthalene	1,2,4,5-
1,1-Dichloroethylene	Ethyl methacrylate	2-Naphthylamine	Tetrachlorobenzene
Litrans-1,2- Dichloroethylene	Ethylene oxide	o-Nitroaniline	TCDDs (All
2,4-Dichlorophenol	bis(2-Ethylhexyl)	p-Nitroaniline	Tetrachlorodibenzo-p- dioxins)
2,6-Dichlorophenol	phthalate	Nitrobenzene	TCDFs (All
	Famphur	5-Nitro-o-toluidine	Tetrachlorodibenzofurans)
Dichlorophenoxyacetic	Fluoranthene		1,1,1,2- Tetrachloroethane
acid/2,4-D			1,1,2,2-
1,2-Dichloropropane	Formetanate hydrochloride	p-Nitrophenol	Tetrachloroethane
L cis-1,3- Dichloropropylene	Formparanate	N-Nitrosodiethylamine	Tetrachloroethylene
trans-1,3-	Heptachlor	N-Nitrosodimethylamine	2,3,4,6-
Dichloropropylene	Heptachlor epoxide	N-Nitroso-di-n- butylamine	Tetrachlorophenol
Dieldrin	-	N-	-
Diethyl phthalate		Nitrosomethylethylamine	Thiophanate-methyl
	Hexachlorobutadiene	N-Nitrosomorpholine	Tirpate

Toluene
Toxaphene
Triallate
Tribromomethane/Bromoform
1, 2, 4-Trichlorobenzene
1,1,1-Trichlorethane
1,1,2-Trichlorethane
Trichloroethylene
Trichloromonofluoromethane
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4,5- Trichloophenoxyacetic
acid/2,4,5-T
1,1,2-Trichloro-2,2,2-
trifluoroethane
Triethylamine
tris-(2,3-Dibromopropyl) phosphate
Vinyl chloride
Xvlenes-mixed isomers
Xylenes-mixed isomers (sum of o-,m-, and p-xylenes)
 Xylenes-mixed isomers (sum of o-,m-, and p-xylenes) II. Inorganic Constituents:
(sum of o-,m-, and p-xylenes)
(sum of o-,m-, and p-xylenes) II. Inorganic Constituents:
(sum of o-,m-, and p-xylenes) II. Inorganic Constituents:
(sum of o-,m-, and p-xylenes) II. Inorganic Constituents: Antimony Arsenic
(sum of o-,m-, and p-xylenes) II. Inorganic Constituents: Antimony Arsenic Barium
(sum of o-,m-, and p-xylenes) II. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium
(sum of o-,m-, and p-xylenes) II. Inorganic Constituents: Antimony Arsenic Barium Beryllium
(sum of o-,m-, and p-xylenes) II. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium Chromium (Total)
(sum of o-,m-, and p-xylenes) II. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium Chromium (Total) Cyanides (Total)
(sum of o-,m-, and p-xylenes) II. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium Cadmium Chromium (Total) Cyanides (Total) Cyanides (Amenable)
(sum of o-,m-, and p-xylenes) II. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium Chromium (Total) Cyanides (Amenable) Fluorides
(sum of o-,m-, and p-xylenes) I. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium Cadmium Chromium (Total) Cyanides (Total) Cyanides (Amenable) Fluorides Lead Mercury—
(sum of o-,m-, and p-xylenes) I. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium Cadmium Chromium (Total) Cyanides (Total) Cyanides (Amenable) Fluorides Lead Mercury— Nonwastewater from Retort
(sum of o-,m-, and p-xylenes) I. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium Chromium (Total) Cyanides (Total) Cyanides (Amenable) Fluorides Lead Mercury— Nonwastewater from Retort Mercury—All Others
(sum of o-,m-, and p-xylenes) I. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium Cadmium Chromium (Total) Cyanides (Total) Cyanides (Amenable) Fluorides Lead Mercury— Nonwastewater from Retort Mercury—All Others Nickel
(sum of o-,m-, and p-xylenes) I. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium Chromium (Total) Cyanides (Total) Cyanides (Amenable) Fluorides Lead Mercury— Nonwastewater from Retort Mercury—All Others Nickel Selenium
(sum of o-,m-, and p-xylenes) II. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium Cadmium Codmium (Total) Cyanides (Total) Cyanides (Total) Cyanides (Amenable) Fluorides Lead Mercury— Nonwastewater from Retort Mercury—All Others Nickel Selenium Silver
(sum of o-,m-, and p-xylenes) I. Inorganic Constituents: Antimony Arsenic Barium Beryllium Cadmium Cadmium Chromium (Total) Cyanides (Total) Cyanides (Total) Cyanides (Amenable) Fluorides Lead Mercury— Nonwastewater from Retort Nickel Selenium Silver Silver Sulfide

APPENDIX C Asbestos Abatement Documentation



1201 D Street

Lincoln, NE 68502

402-261-8130

Asbestos Abatement

Lower Brule Sioux Tribe Former Housing Authority Building 633 Crazy Horse Street Lower Brule, SD

- **1. NESHAP Notifications**
- 2. Disposal Manifests
- 3. Supervisor Daily Logs
- 4. Daily Sign-In Sheets

NESHAP NOTIFICATIONS

NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project # P	ostmark		Date Receive	d	Notification #	2
I. Type of Notification (O=Original R=R	Revised C=Canceled	0				
II. FACILITY INFORMATION (Identify o	wner, removal contr	ractor, and c	other operator)			
OWNER NAME: Lower Brule Sioux						
Address: 187 Oyate Circle						
city: Lower Brule		State: Sc	outh Dakota	zip: 57548		
Contact: George Honeywell				Tel: 605-473-0	0163	
REMOVAL CONTRACTOR: New Ho	orizons Enviro	onmenta	I, LLC			
Address: 1201 D Street						
;ity: Lincoln		State: No	braska	zip: 68502		
ontact: Dustin Huenink			Tel: 402-913-8	3112		
THER OPERATOR: Doug O' Bryan	Contracting, Inc.					
ddress: 21617 US Hwy. 18						
:ity: Martin		State: So	uth Dakota	zip: 57551		
ontact:				Tel: 605-685-6	281	
I. TYPE OF OPERATION (D=Demo O=	Ordered Demo R=R	enovation E	=Emer. Renoval	tion) D		
/. IS ASBESTOS PRESENT? (Yes/No)	25.					
FACILITY DESCRIPTION (Include bu	ilding name, numbe	r and floor o	or room number)		
Idg. Name: Former Housing Autho	ority Building		2-1-2-1-1			
ddress: 633 Crazy Horse Street						
ity: Lower Brule		State: So	uth Dakota	County: Lyman	G.,	
ite Location: 633 Crazy Horse Stre	eet					
uilding Size: 2,125 SF		# of Floor	s: 1	Age in Years: UI	nk	
resent Use: Vacant		Prior Use:	Commercial			
I. PROCEDURE, INCLUDING ANALYTI LM	ICAL METHOD, IF A	PPROPRIAT	E, USED TO DE	TECT THE PRESEN	ICE OF ASBESTO	S MATERIAL:
II. APPROXIMATE AMOUNT OF ASBE	CM Be	Asb Mate	friable lestos rial Not Removed	Indicate Unit of Measurement Belo		
1 Regulated A(M to be Removed		Category I		Category II		JINIT
ipes	Overspra	y on pipes			LnFt: 35	Ln M:
urface Area	ceiling	texture	floor tile		SqFt: 2,100	Sq M:
ol RACM Off Facility Component					CuFt:	Cu M:
II. SCHEDULED DATES ASBESTOS R	EMOVAL (MM/DD/Y	Y) Start: 11/	18/2016		Complete: 12/	31/2016
SCHEDULED DATES DEMO/RENOV			and the lot of the second s			/31/2016

DEMOLITION OR RENOVATION SITE:			ED TO PREVENT EMISSIONS OF ASBESTOS AT THE on pipe will be cut and wrapped. Sealant will be removed non-friab			
XII. WASTE TRANSPORTER #1						
Name: Byre Brothers, Inc.						
Address: 170 Old Airport Rd.						
city: Chamberlain	State: South Dakota Zip: 57325					
Contact Person: Sandy						
WASTE TRANSPORTER #2			Ten			
Name:						
Address:						
City:	State:		Zip:			
Contact Person:	juite.		Tel:			
XIII. WASTE DISPOSAL SITE			101			
Name: Tri-County Landfill						
Address: 24978 349th Ave.						
City: Pukwana	State: South Dal	kota	zip: 57370			
Tel: 605-894-4535	Julie.		210.000			
XIV. IF DEMOLITION ORDERED BY A GOVERNME	NT AGENCY, PLEASE IDENT	IFY THE	E AGENCY BELOW			
Name:	Title:	<u>a i jia</u>	E AGENOT BEEOW.			
Authority:	1 (100)					
Date of Order (MM/DD/YY):	Date C	rdered	to Begin (MM/DD/YY):			
XV. FOR EMERGENCY RENOVATIONS:	Dute e	raciou	to begin (mmbbrii).			
Date and Hour of Emergency (MM/DD/YY):						
Description of the sudden unexpected event:						
Explanation of how the event caused unsafe condi	tions or would cause equipn	nent dar	mage or an unreasonable financial burden:			
XVI. DESCRIPTION OF PROCEDURES TO BE FOLL NONFRIABLE ASTESTOS MATERIAL BECOMES C Stop work, contact owner, and contact regulatory	RUMBLED, PULVERIZED, OI	UNEXP R REDU	PECTED ASBESTOS IS FOUND OR PREVIOUSLY ICED TO POWDER:			
XVII. I CERTIFY THAT AN INDIVIDUAL TRAINED IN SITE DURING THE DEMOLITION OR RENOVATION PERSON WILL BE AVAILABLE FOR INSPECTION D	, AND EVIDENCE THAT THE	REQUI	ATION (40 CFR PART 61, SUBPART M) WILL BE ON- RED TRAINING HAS BEEN ACCOMPLISHED BY THIS S. 11/04/2016			
(Signature of Owner/Op	erator)	-	(Date)			
XVIII. I CERTIFY THAT THE ABOVE INFORMATION	IS CORRECT:					
at in Annue			11/04/2016			



April 25, 2017

Ms. Kristin Jendrek EPA Region 8 1595 Wynkoop Street Denver, Colorado 80202

Subject: Former Housing Authority Building 633 Crazy Horse Street Lower Brule, South Dakota

Dear Ms. Jendrek,

New Horizons will be on-site at the Former Housing Authority Building on May 1 through May 2, 2017 to remove 300 LF of non-friable transite. I have included the original notification for reference.

After the removal of the transite is completed the project will be finished.

If you have questions or require any additional information, please feel free to call me at (402) 261-8130.

Sincerely,

Dustin Huenink Project Manager New Horizons Enterprises, LLC

DISPOSAL MANIFESTS

ASBESTOS WASTE SHIPMENT RECORD

Work site name and mailing address: Former Housing Auch, Buildin Owner's Name: Lower Brule Sioux Tribe Owner's Telephone No: 633 Crazy Horse Street 605-473-0163 George Honeywell Lower Brule, SD 2. Operator's name and address: New Horizons Environmental, LLC **Operator's Telephone No:** 1201 D Street 402-261-8130 Lincoln, NE 68502 3. Waste disposal site (WDS) name, mailing address and physical site location: Tri-County Landfill WDS Phone No: 24978 349th Ave 605-894-4535 Pukwana, SD 57370 4. Name and address of responsible agency: EPA - Region 8 5. Description of materials; 6. Containers 7. Total Quantity: Type: Friakla No.: n 8. Special handling instructions and additional information: 9. OPERATORS CERTIFICATION: I hearby declare that the content of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and government regulations. Print/type name and title; Signature Date (M/D/YY): imands TRANSPORTER 10. Transporter 1.: (Acknowledgment of receipt of materials) Byre Brothers, Inc. Print/type name and title, address and telephone no. Date (M/D/YY): Signature: 170 Old Airport Rd. Mar Chamberlain, SD 57325 12-5-16 605-234-5271 11. Transporter 2.: (Acknowledgment of receipt of materials) Print/type name and title, address and telephone no. Signature: Date (M/D/YY): DISPOSAL SITE 12. Discrepancy indication space: 9 MOK TRI COUNTY LANDFILL 24978 349TH AVE 13. Waste disposal site Owner or operator certification of receipt of asbestos materials cover PUKIW ANIAs SID: 57357016422 in item 12. Print/type name and title: Signature: Date (M/D/YY): Lappy J. Momanus 12-5-16

**Please fax copy of manifest to 402-261-8136

75' wig wedge 1640 lev . 100 Ng cente

ASBESTOS WASTE SHIPMENT RECORD

Former Housing Auth. 633 Crazy Horse Stre Lower Brule, SD	Vork site name and mailing address: Former Housing Auth. Billding 633 Crazy Horse Street Lower Brule so George Honeywell					
2. Operator's name and address: n	al, LLC Operator's Telephone No: 402-261-8130					
3. Waste disposal site (WDS) nam Tri-County Landrill 24978 349th Ave Pukwana, SD 57370	al site location: WDS Phone No: 605-894-4535					
4. Name and address of responsible	agency: EPA - Region	1.8				
5. Description of materials: <u>Travelte pipe</u> 8. Special handling instructions and	Site Dipe					
	Section 200					
		e that the content of this consignment are fully a classified packed, marked and labeled and are ing to applicable international and government				
Print/type name and title:	Signature:					
V -	V	Date (M/D/YY):				
Kerry Thompson	Kenyt	Longson 5-1-17				
Kerry Thompson	Kenyt	Longson 5-1-17				
Kerry Thompson	ent of receipt of susterials)	Byre Brothers, Inc. HTTE: Date (M/D/YY):				
Keny Thangton TRANSPORTER 0. Transporter 1.: (Acknowledge Winthype name and title, address and 70 01d Airport Rd. hamberlain, SD 57325 05-224-5771	ent of receipt of numberials) telephone no. Signati	Byre Brothers, Inc.				
Kerry Turneton FRANSPORTER 10. Transporter 1.: (Acknowledges rint/type same and tile, address and 70 Old Airport Rd. hamberlain, SD 57325	ent of receipt of materials) telephone no. Signati ike	benching 5-1-17 Byre Brothers, Inc. Date (M/D/YY): S 5-12-17				
Kerry Thompson TRANSPORTER 10. Transporter 1.: (Acknowledges Trint/type same and tile, address and 70 01d Airport Rd. hamberlain, SD 57325 05-234-5771 1. Transporter 2.: (Acknowledges	telephone no. Signan	benching 5-1-17 Byre Brothers, Inc. Date (M/D/YY): 1 5-12-17				
Keny Thompson FRANSPORTER 10. Transporter 1.: (Acknowledge Vint/type name and title, address and 70 01d Airport Rd. hamberlain, SD 57325 105-234-5771 1. Transporter 2.: (Acknowledge rint/type name and title, address and	telephone no. Signatu telephone no. Signatu	benching 5-1-17 Byre Brothers, Inc. Date (M/D/YY): 1 5-12-17				
Keny Thompson FRANSPORTER 10. Transporter 1.: (Acknowledges rint/type same and tile, address and hamberlain, SD 57325 05-234-5771 1. Transporter 2.: (Acknowledges rint/type name and title, address and HSPOSAL SITE 2. Discrepancy indication space: Sawy MMM Waste disposal site	telephone no. Signatu telephone no. Signatu telephone no. Signatu telephone no. Signatu	benching 5-1-17 Byre Brothers, Inc. Date (M/D/YY): 1 5-12-17				
Keny Thompson FRANSPORTER 10. Transporter 1.: (Acknowledges rint/type same and tile, address and hamberlain, SD 57325 05-234-5771 1. Transporter 2.: (Acknowledges rint/type name and title, address and HSPOSAL SITE 2. Discrepancy indication space: Sawy MMM Waste disposal site	telephone no. Signatu telephone no. Signatu telephone no. Signatu telephone no. Signatu	benchers S-1-17 Byre Brothers, Inc. Date (M/D/YY):				

**Please fax copy of manifest to 402-261-8136

SUPERVISOR DAILY LOGS

CLIENT: CONTRACTOR: 10.2 Hallon PROJECT NO: REPRESENTATIVE: July 14 Smoods	PROJECT LOCATION: 633 (WARD HARE 37 WORK AREA:	DATE: 11/28/16 PAGE NO:						
7:00 pulled up and unloaded supples 9:00 starled to pop tile - outside !								
1100 soont to worm	up!!							
12:00 pappilot stopped								
	12:30 picked up tile & baged out! 1:00 standed remewood campet !!							
5:00 done with carped	5:00 done with carpet							
5:10 pulled lights Bizo bag out								
MAME (PRINT):	SIGNATURE							
TITLE/CERT. NO:	DATE:							

ASBESTO	S PRC)JEC	T OBS	ERVATION LOG/CHECKLIST
Date: <u>11/2-8/16</u> Project Location: <u>Lover Buler</u>	~			
Project Location: Lover Bull				
		D		
Floor No.: Boom No.:		Desc	ription: _	
Room No.: Exterior	····	Desc	npuon	· · · · · · · · · · · · · · · · · · ·
	dina			her
	ain/Snow	,	Temp	her erature:°F
Company Name:				Crew Size: 5
Supervisor:			Forem	nan: wilke
Contractor Personal Protective	Equipm	nent (Pl	PE)	an: <u>Wilke</u>
Ciotning: Pr Disposable coverails	w/nood			1er
Feet: Disposable booties	🛛 Ru	bber boo	ots	Other powered
Respirator: Air purifying 2 1/2	mask	🛛 ful	l face	D powered
L Supplied air w/full fac	e			
	ntinuous	flow mod	le	Pressure demand mode
Asbestos Waste Generated	. — n-	mala		
Poly bags D Boxes	п ва	rreis		Fetimeted quantity diapopod:
Activities Conducted and Cond	itione (beenvo	d	Estimated quantity disposed:
Activities Conducted and Cond グ Setup/Preparation ロ G	nuons o ovebaa	ଅନ୍ମ ଅନ୍	u ross Rom	noval 🗖 Visual Inspection д Cleanup
□ Other	ovebay		033 1.61	
General	N/A	No	Yes	· · ·
Building occupants present Sampling performed		ø		Where: Airborne personal Airborne area Bulk Bulk
			Ø	
Sample No(s): Photographs taken				Location(c):
Barrier tape/ribbon at perimeter	מ ם			Location(s): Action taken:
Warning signs at entrances			р р	Action taken:
Work Area				
Work area secured			DA DA	Action taken:
Supervisor's certificate posted		· 📃	۲Ľ	Action taken:
Sign-in log maintained Floor and walls covered			Ą	Action taken:
Floor and walls covered	L		1	Action taken:
2 poly layers (floor & 12" up wall)	ø			Action taken:
Edges (sealed & inspected)			ø,	Action taken:
Critical barriers & poly intact			টার্টার্	Action taken:
HVAC system (off & sealed)			۲ ۲	Action taken:
Electrical power secured Entry curtains			দৈ বি বি	Action taken:
Decontamination unit maintained			ъ Та	Action taken:Action taken:
Negative air pressure			Z	Action taken:
Pressure differential reading H ₂ O	Locatio		,	in. of
 Pressure differential reading 	Locatio	ימי		in. of
H ₂ O	Looda		· · ·	
Work Practices				
Material worked wet			ø	Action taken:
HEPA vacujm(s) used			Z	Action taken:
Work area cleaned daily			৸ঢ়৸ড়৾৾ড়ড়	Action taken:
Personnel decontamination Procedures per specifications			Ъ Д	Action taken:
Wastewater disposal			Ä	Action taken:
Job safety (fall, scaffolding, etc.)	Ø D	ö	Į	Action taken:
Other comments/conditions:			1	

CLIENT: CONTRACTOR: PROJECT NO: REPRESENTATIVE:	PROJECT LOCATION: WORK AREA:	DATE: <u>// 22/10</u> PAGE NO:
7100 prod Set up Strensor	+ mandaus + Drs	
10:00 gill pre ping	· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	
11:00 water run/	Stated doing the ceiling	y
12:00: Lunch 12:00 Back on the ceiling	}	
4:00 Stated Cloon up fo 300 Bacqued out	r lle rest-of-the day	
5130 Af		
	······································	Δ
NAME (PRINT):	SIGNATUR	
TITLE/CERT. NO:	DATE:	¥
Reviewed By:		

ASBESTOS PROJECT OBSERVATION LOG/CHECKLIST

Date:	11/29/16	/				•	
Projec	t Location: Time	<i>Welles</i>	•				
	Interior Z Floor No.:						
	Floor No.:			Descri	ption: 1	Tile	
	G Room No.:			Descri	otion:		
	Exterior			200001	p		
-			ina			her	
			n/Snow		Tompo	her erature:°F	
Contro	a at a a linfa and att a a						
Contra	actor Information	1. 0				0	
Comp	any Name: <u>IVen [</u> -	th/1201				Crew Size: <u>5</u>	
Super	visor: <u>JUMIA</u>				Forema	nan: Willio	
Contra	actor Personal Pro	tective l	Equipm	ent (PPI	E)		
Clothir	ng: 🛛 Disposable o	coveralls v	/hood		🛛 Othe	her	
Feet:	D Disposable b	pooties	🛛 Rub	ber boot	s	Other	
Respir	rator: Air purifying	🗹 ½ m	nask	🗆 full f	ace	D powered	
	□ Supplied air v	w/full face)			— F	
				ow mode		Pressure demand mode	
Achoe	stos Waste Generat						
	ly bags			role		be r	
Materi	al(s) removed: ties Conducted and						
L Set	tup/Preparation	W Glo	vebag	Gro کر	ss Remo	noval 🛛 🖉 Visual Inspection 🖉 Cleanup	
	ner						
Gener	al		N/A	No	Yes		
	g occupants present			Ø		Where:	
Sampli	ng performed				ø	Airborne personal Airborne area Bulk	
	e No(s):					······································	
	raphs taken			Ø	σ,	Location(s):	
	tape/ribbon at perime	ter			и И	Action taken:	
	g signs at entrances				Ø	Action taken:	
Work A	Area				•		
Work a	rea secured				ø	Action taken:	
	isor's certificate poste	d			′¤′	Action taken:	
	log maintained				Γ.	Action taken:	
Floor a	nd walls covered				ø	Action taken:	
			1				
2 poly l	ayers (floor & 12" up v	vall)	ø	\Box .	ø	Action taken:	
<u> </u>		_	_	_	1		
	(sealed & inspected)				<u>p</u>	Action taken:	
Critical	barriers & poly intact				Ø	Action taken:	
HVAC s	system (off & sealed)				Ø	Action taken:	·······
	al power secured				Z	Action taken:	
Entry cu					Ľ,	Action taken:	
	amination unit maintai	ined			ă A	Action taken:	
	e air pressure					Action taken:	
	ressure differential rea	ading	Locatio	n:		in. of	
H ₂ O							
• P	ressure differential rea	ading	Locatio	n:		in. of	
H ₂ O							
Work I	Practices						
Materia	l worked wet				口 ⁄	Action taken:	
HEPA v	/acujm(s) used				¢۲	Action taken:	
	rea cleaned daily				Έγ	Action taken:	
	nel decontamination				ĺΏ	Action taken:	
	ures per specifications	5			Þ	Action taken:	
	vater disposal		ø		٩ ٩ ٩ ٩	Action taken:	
	ety (fall, scaffolding, e				p	Action taken:	
Other (comments/condition	ons:			·		

CLIENT: CONTRACTOR: PROJECT NO: REPRESENTATIVE:	PROJECT LOCATION: WORK AREA:	DATE: <u>11/30/14</u> PAGE NO:
710 PPE back on the ce	ling	
9:10 still on the deiling	· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·		
15:30 wester run/Ball g	effing it Donell	
12:00 Lurch		
12:30 Back on the chiling	· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·
4100 85% done 3 rooms 1	eft	
6:00 done with ceiling now k		
7:00 dore wilk cleaning + ha	ggng est	
7130 off		
	A	
NAME (PRINT): TITLE/CERT. NO:	SIGNATURE: DATE:	3
Reviewed By:		· · · ·

ASBESTOS PROJECT OBSERVATION LOG/CHECKLIST

Date: <u>11/30///6</u>	1			
Project Location: <u>"Lower Brit</u>	n.			
Interior				
🗹 Floor No.:		Desc	cription:	
[′] □ Room No.:		Desc	cription:	
Exterior				
Roofing S	Siding		□ Otł	ther
	Rain/Snow	,	Tempo	ther°F
Contractor Information				· ·
Company Name: Way Har	701			Crew Size: 5
Supervisor: Alasha Super	MS-		Forem	Crew Size: _5
Contractor Personal Protectiv	o Fauinn	ont (P		
Clothing: Z Disposable coveral				hor
		hharha	ata Olin	her
Feet: Disposable booties				
Respirator: Air purifying Z 1/2	2 mask		li tace	□ powered
□ Supplied air w/full fa		6 1	- L	
	ontinuous	rlow mo	ae	Pressure demand mode
Asbestos Waste Generated				
Ø Poly bags □ Boxes				Estimated quantity disposed:
Material(s) removed:				Estimated quantity disposed:
Activities Conducted and Con	ditions O	bserve	əd	
□ Setup/Preparation □ G	lovebag	_ ⊠″ G	ross Rem	noval 🖉 Visual Inspection 🖉 Cleanup
Other		_		
General	N/A	No	Yes	
Building occupants present		Į D		Where:
Sampling performed		٦	Ø	□ Airborne personal □ Airborne area □ Bulk
Sample No(s):				······································
Photographs taken	p'		D,	Location(s):
Barrier tape/ribbon at perimeter			Þ Þ	Action taken:
Warning signs at entrances			æ	Action taken:
Work Area			4	
Work area secured			ø,	Action taken:
Supervisor's certificate posted			Z	Action taken:
Sign-in log maintained	D Ø		þ	Action taken:
Floor and walls covered	ø			Action taken:
	_	_	_	
2 poly layers (floor & 12" up wall)	ø			Action taken:
	_	_		
Edges (sealed & inspected)			P P	Action taken:
Critical barriers & poly intact			2	Action taken:
HVAC system (off & sealed)			মুদ্র্য	Action taken:
Electrical power secured Entry curtains			ц М	Action taken:
Decontamination unit maintained			E C	Action taken:
Negative air pressure			র্ মু	Action taken:Action taken:
Pressure differential reading	Locatio			
•	Locauc	m		in. of
H₂O	1			in at
Pressure differential reading	Locatio	on:	· .	in. of
H ₂ O				
Work Practices	_	_		
Material worked wet			<u>م</u>	Action taken:
HEPA vacujm(s) used			Å	Action taken:
Work area cleaned daily			ष्वष्रेष्	Action taken:
Personnel decontamination			Ц	Action taken:
Procedures per specifications				Action taken:
Wastewater disposal	Ø		D Ø	Action taken:
Job safety (fall, scaffolding, etc.)			щ	Action taken:
Other comments/conditions: _				
<u></u>				

CLIENT: CONTRACTOR: PROJECT NO: REPRESENTATIVE:	PROJECT LOCATION: WORK AREA:	DATE: <u>////////////////////////////////////</u>
7:00 ppEon 7:05 Back at of cut de He roof 8:00 Final clean floors 9:00 roof warlers worme 9:30 Still dany floors !! 100 dope with floor	d up	le Douppel cut bluebe off
11:15 removed forms 1:30 off		
NAME (PRINT):	SIGNATUF	DE-
TITLE/CERT. NO:	DATE:	ΛC.
Reviewed By:		

ASBESTOS PROJECT OBSERVATION LOG/CHECKLIST

Date: (2)1/1/2	1			
Project Location: Lower Br	re		•	
□ Interior				
🗹 Floor No.:		Dese	cription:	
🖾 Room No.:		Dese	cription: _	
Exterior				
	Siding		🗆 Otl	her°F
	Rain/Snow		Temp	erature: °F
Contractor Information				
Company Name: Whu) Harr	201			Crew Size: _ <u>/</u>
Supervisor: NUMA Gimo	nds		_ Forem	Crew Size: <u>ج</u>
Contractor Personal Protectiv	e Equipm	ent (P	PE)	· · · · · · · · · · · · · · · · · · ·
Clothing: Z Disposable coverall				ner
Feet: Disposable booties	🛛 Rul	ber bo	ots	Other
Respirator: Air purifying 1/2 1/2				□ powered
Supplied air w/full fa	ice			
		low mo	de	Pressure demand mode
Asbestos Waste Generated				
🖓 Poly bags 🛛 Boxes	🗆 Ba	rrels	🛛 Oth	ner
Material(s) removed:	ditions O	bserve	ed	·····
□ Setup/Preparation □ G	lovebag	⊠ G	ross Rem	noval 🖉 Visual Inspection 🖾 Cleanup
□ Other		6		
General	N/A	No	Yes	
Building occupants present		ø D		Where:
Sampling performed			ø	□ Airborne personal □ Airborne area □ Bulk
Sample No(s):			·	· · · · · · · · · · · · · · · · · · ·
Photographs taken		ğ	<u> </u>	Location(s):
Barrier tape/ribbon at perimeter			ø.	Action taken:
Warning signs at entrances			ы	Action taken:
Work Area	_	-	L2(Action tolen
Work area secured Supervisor's certificate posted			M M M M	Action taken:
Sign-in log maintained	Ľ,		д Д	Action taken:Action taken:
Floor and walls covered	đ		<u>ک</u>	Action taken:
	·—	_	~	
2 poly layers (floor & 12" up wall)	ø			Action taken:
· · · · · · · · · · · · · · · · · · ·	-		,	
Edges (sealed & inspected)			ø,	Action taken:
Critical barriers & poly intact			۲ <u>م</u>	Action taken:
HVAC system (off & sealed)			Д Д	Action taken:
Electrical power secured Entry curtains				Action taken:
Decontamination unit maintained			Д Д	
Negative air pressure			Z	Action taken:Action taken:
Pressure differential reading	Locatio			in. of
H ₂ O	Loodio			
 Pressure differential reading 	Locatio	n'		in. of
H ₂ O	2000.00			
Work Practices				
Material worked wet			₽	Action taken:
HEPA vacujm(s) used			Þ	Action taken:
Work area cleaned daily			۲¢	Action taken:
Personnel decontamination			لمكمكم	Action taken:
Procedures per specifications			<u> </u>	Action taken:
Wastewater disposal	۲ П		Ll Prí	Action taken:
Job safety (fall, scaffolding, etc.) Other comments/conditions:	_		<i>¶</i> ⊂⊔	Action taken:
other comments/conditions: _	· · · · ·			
			· · .	· · · · ·

CLIENT:	PROJECT	
CONTRACTOR: New HOSIZONS	LOCATION:	DATE: 5-1-17
REPRESENTATIVE:	WORK AREA:	PAGE NO:
	·····	
315:	lined the do	mpster then Stored
	loading truck	te pipe
< <u></u>	S' Dure light	te pipe Done der
:) 32	2 Dance 10 Ciching	S WIPE VARE OCI
	The day	
	· · · · · · · · · · · · · · · · · · ·	
	······································	
	····	
	Test	
	· · · · · · · · · · · · · · · · · · ·	
	1	
NAME (PRINT): 11cmy Thompson	SIGNATI	URE: Kerry Thomas S-(+)
TITLE/CERT. NO:	DATE:	5-(+) 1
Reviewed By:		

ASBESTOS PROJECT OBSERVATION LOG/CHECKLIST

Date: <u>5-1-17</u>				
Project Location:		·····		
All Interior				
Floor No.:		Des	cription:	
□ Room No.:		Des	cription:	
Exterior			• •••	
JF	ding		PT Oth	her Transler - an
	ain/Snow	,	Temp	erature:°F
Contractor Information		,	remp	Crew Size:
Company Name:				Crow Sizo
	Oricals	l		
Supervisor:			Forem	ian:
Contractor Personal Protective	e Equipn	nent (F	'PE)	
Clothing: A Disposable coveralls	s w/hood		Oth	ner
Feet: Disposable booties				
Respirator: Air purifying	mask	🗆 fu	ull face	□ powered
Supplied air w/full factors	ce			
	ntinuous	flow mo	ode	Pressure demand mode
Asbestos Waste Generated				
Poly bags D Boxes	🗆 Ba	rrels	□ Oth	ner ·
Material(s) removed:				Estimated quantity disposed:
Activities Conducted and Cond	litions (heary	ed	
\square Setup/Propagation \square G	ovobaa		eu Pross Pom	oval 🛛 Visual Inspection 🔏 Cleanup
	ovenay		0055 11011	
□ Other		N		·
General	N/A	No	Yes	
Building occupants present				Where: Airborne area Bulk
Sampling performed				Li Airborne personal Li Airborne area Li Buik
Sample No(s):				
Photographs taken Barrier tape/ribbon at perimeter		μ.		Location(s):
			D D	Action taken:
Warning signs at entrances				Action taken:
Work Area	_	_		
Work area secured				Action taken:
Supervisor's certificate posted				
Sign-in log maintained Floor and walls covered				Action taken:
Floor and walls covered				Action taken:
2 poly layers (floor & 12" up wall)		Æ		Action taken:
Edges (sealed & inspected)	h			Action taken:
Critical barriers & poly intact	Б			Action taken:
HVAC system (off & sealed)				Action taken:
Electrical power secured	đ			Action taken:
Entry curtains	đ			Action taken:
Decontamination unit maintained				Action taken:
Negative air pressure	ф ф			Action taken:
Pressure differential reading	Locatio	on:		in. of
H ₂ O	Looding			
 Pressure differential reading 	Locatio			in. of
H ₂ O	LOCAL	/II		
Work Practices				
Material worked wet			r i	Action tokon
HEPA vacujm(s) used			,Ú e	Action taken:
Work area cleaned daily				Action taken:
Personnel decontamination		Ø F		Action taken:
Procedures per specifications		Gr		Action taken:
Wastewater disposal		<u>کر</u>		Action taken:
Job safety (fall, scaffolding, etc.)				Action taken:
Other comments/conditions:		~		Action taken:
Cuter comments/conditions: _				
				1

CLIENT: CONTRACTOR: New Horitors	PROJECT	
PROJECT NO	LOCATION:	DATE: <u>גרב</u>
PROJECT NO: REPRESENTATIVE:	WORK AREA:	PAGE NO:
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7		
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الجما	the top on d.	na.
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	······································	······
	·····	
		_ /
NAME (PRINT): Kerry Thompson	SIGNATUR	E: Kerry (hompson
TITLE/CERT. NO:	DATE: 😋	E: Keny (rompson
Reviewed By:		

ASBESTOS PROJECT OBSERVATION LOG/CHECKLIST

Date: <u>5-2-17</u>				
Project Location:			4	
		_		
Floor No.:		Desc	ription:	
□ Room No.:		Desc	ription:	
Exterior			-	4
Roofing	Siding		∠⊡ Ot	her transitepipe
🗆 Windy 🗖 I	Rain/Snow		Temp	her <u>+hans'+cp:pe</u> erature:°F
Contractor Information				
Company Name: <u>Neい</u> H	Urizons			Crew Size: 1
Supervisor:			Foren	Crew Size: <u>\</u>
Contractor Personal Protectiv	/e Equipm	ent (Pl	PE)	
				her
Feet: Disposable booties				
Respirator: Air purifying				□ powered
□ Supplied air ŵ/full f	ace	/ui	11400	
		low mod	le	□ Pressure demand mode
Asbestos Waste Generated				
Poly bags	П Ва	rrels		her
Material(s) removed:				Estimated quantity disposed:
Activities Conducted and Cor		heenvo	d	
	slovebag	ЦG	loss Ren	noval 🛛 Visual Inspection 🖾 Cleanup
Other	N/A	Na	Vaa	
General	-	No		Mhara
Building occupants present				Where: Airborne area Bulk
Sampling performed Sample No(s):		لطر		
Photographs taken		দ		Location(s);
Barrier tape/ribbon at perimeter		D D		Location(s): Action taken:
Warning signs at entrances		æ		Action taken:
Work Area				
Work area secured				Action taken:
Supervisor's certificate posted				Action taken:
Sign-in log maintained	ō	Б		Action taken:
Floor and walls covered		Ŧ		Action taken:Action taken:
2 poly layers (floor & 12" up wall)		ф		Action taken:
Edges (sealed & inspected)				Action taken:
Critical barriers & poly intact		Щ		Action taken:
HVAC system (off & sealed)		9		Action taken:
Electrical power secured		9		Action taken:
Entry curtains				Action taken:
Decontamination unit maintained				Action taken:
Negative air pressure	—			Action taken:
Pressure differential reading	Locatio	n:		in. of
H ₂ O				
Pressure differential reading	Locatio	n:		in. of
H₂O				
Work Practices	_	_	_	
Material worked wet				Action taken:
HEPA vacujm(s) used		Ľ		Action taken:
Work area cleaned daily		Ľ		Action taken:
Personnel decontamination Procedures per specifications				Action taken:
Wastewater disposal		Ϋ́		Action taken:
Job safety (fall, scaffolding, etc.)				Action taken:Action taken:
Other comments/conditions:		-	-	
other comments/conditions.				· · · · · · · · · · · · · · · · · · ·
.				

DAILY SIGN-IN SHEETS



DAILY SIGN IN SHEET

Project:	Former HA - Abatement-	Date:	1/28/16	/
Project Manager:		Reviewer:		

PRINTED NAME	SIGNATURE
AVant A Simondes	
John Ross	John Roll
malok Riak	Majot Riak
Wittle Foote	N-A
Chuck Stables	Classes
	ć

Personal protective equipment checklist (c	heck required PPE)
Hard hat	Respiratory (describe type above)
Safety glasses w/sideshields	Hand protection
Shield/goggles/added face protection	Hearing protection
Foot protection	Clothing (long pants, long sleeves)



DAILY SIGN IN SHEET

Project:	Former	HA-	Abatement	Date:	11/24/16	
Project Manager:				Reviewer:	· / /·	

PRINTED NAME	SIGNATURE
JAlonta Simonds	ta
Willte Foote	2 - A
Malak Riak	Made Kide
John Ross	John Rolls
Chack Stadler	Reg Set

Personal protective equipment checklist (c	heck required PPE)
Hard hat	Respiratory (describe type above)
Safety glasses w/sideshields	Hand protection
Shield/goggles/added face protection	Hearing protection
Foot protection	Clothing (long pants, long sleeves)





DAILY SIGN IN SHEET

Project: Former HA-Abatement	Date:
Project Manager:	Reviewer:

PRINTED NAME	SIGNATURE
AVarta Smonds	A
John Ross	Shu for
Will'e Foote	an - A
Majox Biak	Ch Set
Major Biak	
0	

Personal protective equipment checklist (ch	neck required PPE)
Hard hat	Respiratory (describe type above)
Safety glasses w/sideshields	Hand protection
Shield/goggles/added face protection	Hearing protection
Foot protection	Clothing (long pants, long sleeves)



DAILY SIGN IN SHEET

Project:	Date: 12/1/16
Project Manager:	Reviewer:

PRINTED NAME	SIGNATURE
Stephet Simonds	
Standt Smonds Chuck Stabler	Ch Set
Willie Foote Majok Riak John Ross	د د
Major Biak	
John Ross	

Personal protective equipment checklist (check required PPE)	
Hard hat	Respiratory (describe type above)
Safety glasses w/sideshields	Hand protection
Shield/goggles/added face protection	Hearing protection
Foot protection	Clothing (long pants, long sleeves)



DAILY SIGN IN SHEET

Project:	Date: 5-1-17
Project Manager:	Reviewer:

PRINTED NAME	SIGNATURE
Kerry Thompson Reggie Temple	Keny Trompson Leggio Emple
leggie Temple	Lacio Tomple

Personal protective equipment checklist (check required PPE)	
Hard hat	Respiratory (describe type above)
Safety glasses w/sideshields	Hand protection
Shield/goggles/added face protection	Hearing protection
Foot protection	Clothing (long pants, long sleeves)



DAILY SIGN IN SHEET

Project:	Date: 5-2-17
Project Manager:	Reviewer:

PRINTED NAME	SIGNATURE
Kerry Thompson	Kerry Thompson
herry Thompson Leggie Temple	Keny Thompson Reggin Tompse

Personal protective equipment checklist (check required PPE)	
Hard hat	Respiratory (describe type above)
Safety glasses w/sideshields	Hand protection
Shield/goggles/added face protection	Hearing protection
Foot protection	Clothing (long pants, long sleeves)