

April 23, 2019

PUBLIC HEARING RELATING TO PLANNING AND ZONING

Judge Alex Barnett opened the Public Hearing and Ed Holmes president of EHI Consultants has been retained by P&Z to update the comprehensive plan of 2012. Mr. Holmes stated that this a vision of where the county wants to be in the next 20 years.

Judge Barnett adjourned the Public hearing.

April 23, 2019

The Harrison County Fiscal Court met pursuant to adjournment with County Judge Alex Barnett present and presiding with Justices of the Peace present. Squire Stan Lemons, Squire Chris Winkle, Squire Brad Marshall Absent, Squire Scott Herrington, Squire Sam Pierce, Squire Brad Yearsley, Squire Dwayne Florence, Squire Al Stakelin.

The pledge of allegiance to the flag was led by Squire Florence.

ORDERED: Approval of the minutes of April 9, 2019 meeting as amended to include Public Hearing for LGEA and Road Aid Funds.

ORDERED: Approval to open bids for grass and arm mowing of the county roadways. Price and Son Mowing was the only bid submitted at a rate of \$12,000 for all county roads per mowing. The court referred the bid to the road committee to check for qualifications.

April 23, 2019

PRICE AND SON MOWING

Will mow all county roads in Harrison county for the amount of 12,000.00.

Chad Price
8594730354

ORDERED Approval to open bids for E-Waste Stabilization and Disposal. David Duttlinger with Bluegrass ADD came before the court to explain the process of disposal. The court received three bids: Pecco from Nicholasville, Ky - Kuusakoski from Peoria, IL- Chase Environmental from Louisville, Ky. Mr. Duttlinger explained that he would take the three bids back with him and review them then give his recommendation to the court. Squire Yearsley and Squire Florence agreed to be on a committee with Judge Barnett and David Duttlinger to review and decide which bid to accept.



**Perdue Environmental
Contracting CO., Inc.**
Est. 1991

April 18, 2019

Harrison County Court

Bluegrass Area Development District
Attn: David Duttlinger
699 Perimeter Drive
Lexington, KY 40514

Proposal for Harrison County e-Waste Stabilization and Disposal

Perdue Environmental Contracting Company, Inc (PECCO, Inc) is pleased to submit a proposal for the scope of work described in the Harrison County e-Waste Stabilization and Disposal RFB. PECCO has successfully completed numerous remediations in similar scope and scale. We have been providing specialized environmental services since 1991 while retaining the same ownership and many of the same employees. Our reputation with our customers and state agencies is exceptional due to our high standards of service. We own our equipment and have the experienced personnel on staff to complete this project. We are one of the largest Environmental Contractors specializing in environmental remediation, emergency response and waste transportation in our region with over 120 employees and hundreds of pieces of equipment. We will be providing our own trucking but will also be partnering with James T. Chambers trucking to provide some of the transportation to the landfill to incorporate a local company. We encourage our potential clients to check with our past clients about our high standards of work we will bring to your project. See our list of past similar projects related to this work.

Scope of Work

1. Preconstruction planning and waste disposal profiles. Authorization and approval from Superfund Branch for treatment method. Health and Safety Plan will also be produced and implemented in this stage.
2. Equipment mobilization and setup. We are Mobilizing (2) 924 Cat Rubber Tire Loaders, a 14,000 Lb Hyster Forklift, 8000 Lb 844 Genie Telehandler, Skid Steer and 320 Cat Excavator.
3. We will add Rock to the facility access roads as needed to keep the road in usable shape and to prevent tracking of material outside of the facility.
4. The facility road will stay clean from any tracked mud by keeping trucks on the paved areas and cleaning as needed with a Broom on the Skid Steer.
5. In-House custom fabricated Terra Bond applicator hopper with auger for using with the Shredder.
6. Construction of 5 temporary storage and loading bins using large concrete blocks for shredded e-Waste.
7. Mobilization and setup of Shredder We propose to use a 300 HP Diesel Track Portable Shredder.
8. Setup of Shredder watering and water collection containment, storage tank and pump system. This will spray water and collect the water to respray to control any dust that the shredder may produce.

9. PECCO is basing pricing on using a 4% mix with the Terra Bond. If a higher ratio is required the customer will be billed for the additional Terra Bond.
8. The sampling required for e-Waste processing per 250 tons is included in the e-Waste processing per ton price.
7. For estimation of required area to be remediated PECCO estimated using 75' wide x 400' long and 12' in depth. This area represents the north side (rear of the building) for the length of the concrete and a 75' width off the concrete.
6. The soil remediation will include the area used for processing and storage of the waste.
5. PECCO will take all reasonable measures to reduce further contamination by the processing.
4. The dirt around the processing and storage area outside is expected to be contaminated requiring removal and disposal of when the e-Waste processing is completed and disposed of.
3. Scope of work is listed above. Work outside of listed scope would be additional cost.
2. PECCO will have full access to the site.
1. Prevailing wages do not apply

Assumptions

21. The remediated area will be seeded and strayed for grass growth.
20. Once the area is confirmed clean we will provide clean clay for areas deeper than 6" and clean topsoil for areas above 6".
19. The area will be resampled until confirmation of the area as clean. The sampling grid will shrink as the area is confirmed clean to only resample hot areas.
18. The contaminated area will be excavated 22" and hauled to the subtitle landfill assuming contaminants do not reach hazardous concentrations requiring further processing treatment of the waste disposal.
17. The area around the facility and the processing area will be sampled on a 25' grid to analyze soil contamination, demobilized.
16. Once all e-Waste has been processed and disposed of the temporary concrete blocks will be removed and collected with a vacuum truck and off loaded into an temporary onsite storage tank for disposal.
15. Once broomed the concrete in the building and on the outside will be pressure washed and all water will be all waste is removed.
14. The concrete area including inside the building will be mechanically broomed with a skid steer broom to insure all waste is removed.
13. The AD CY Roll Off Boxes will be trapped and transported to the landfill for disposal.
12. Once sample results are approved for disposal the bins will be loaded into AD CY Roll Off Boxes.
11. The 250 ton piles in bins will be sampled TCLP Analysts and wait until sample results prove fit qualities for subtitle landfill disposal.
10. Start moving material to the shredder and loading the shredder with material. Shredded material will be stored in concrete bins in quantities of 250 tons. The piles in bins will be trapped to avoid rain water run off from the e-Waste.
9. Initial Terra Bond delivery and storage.

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Contracting Co., Inc.





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10. The provided estimate of 12,756 Tons of e-Waste includes the disposal of 4% ratio of Terra Bond which is about 510.24 Tons.
11. PECCO is also assuming the Terra Bond Method will work to treat the material to allow non haz disposal in a subtitle D landfill.
12. Pricing is based on disposal at Rumpke Butler Landfill.
13. Required fill to replace the remediated area is based on the excavated area. This number will increase or decrease if the excavated tonnage increases or decreases.
14. Water will be sampled and provided disposal pricing assumes that the water is Non-Haz and can be accepted at Rivergreen Water Recycling or Valicor Water Recycling.
15. E-Waste Disposal and Soil Disposal pricing is based on the waste be characterized as Non-Haz (After Processing and Terra Bond addition) and disposed of at a Subtitle D Landfill. Rumpke Butler is the proposed landfill.
16. PECCO will invoice actual numbers not estimated numbers on tonnages and water disposal. The disposal tonnage will be billed based on the landfill tickets for the project. The water disposal will be based on manifest to the water disposal facility.

Required Elements of Proposal:

1. Health and Safety Plan:

PECCO will produce an site specific Health for the handling of the contaminants. This Health and Safety Plan (HASP) will be provided for viewing by the customer and all onsite personnel. Other daily safety measures will be daily job briefings and documented tailgate safety meetings. Required PPE will be provided to all onsite workers for the proper handing of the material throughout the stages of the project.

2. Bench Scale Testing:

PECCO will perform Bench Scale Testing to determine the ratio of Terra Bond to the e-Waste. Additional Bench Scale Testing will be performed throughout the project as needed to meet treatment requirements of the waste.

3. Excavation Plan:

Before excavating PECCO will first grid off the suspected contaminated area in a 25 FT x 25 FT area and sample the area. The sample areas will be surveyed and put on a CAD site map. Once the test results are returned we will determine the extends of the excavation and determine if additional sampling is required to capture the entire contaminated area. The sampling data will be provided to the landfill for a waste profile. Once we have an area determined we will add this to the excavation plan site map. We will then

250 Etter Drive, Nicholasville, KY 40356
859-887-5508

859-887-5508

250 Ester Drive, Nicholasville, KY 40356

See attached timeline.

7. Timeline:

See attached letter of bonding capability from the bonding agency.

6. Payment and Performance Bond:

1. (2) Mobile 4000 PSI 8 GPM Hot Water pressure washers to clean the floor
2. (1) Vac Truck to collect water when pressure washers to wash the floor
3. (2) Pumps to collect and spray water for Dust Control
4. (1) 23,000 Gallon Fresh Tank for Contaminated Water Storage
5. (1) 257 Cubic Yard Skid Steer with Bucket, Forks and Bucket breaker
6. (1) 300 HP Edge Shredder XL Portable Tracked Diesel Shredder
7. (1) 14,000 lb Hyster Forklift
8. (1) 320 CAT Excavator
9. (2) 924 CAT Rubber Tire Wheel Loaders with buckets, forks, and lifting boom

5. Proposed Equipment:

PECCO will be using a 300 HP Edge Shredder XL Portable Tracked Diesel Shredder to mechanically reduce the volume of the material and mix the Terra Bond. The Shredder will be loaded with the Rubber Tire Wheel Loader. The Terra Bond into the feed of the shredder for efficient mixing of the material. Dust Control measures will be in place by wetting the material going into the shredder. All water will then be collected in a portable container under the shredder and then pumped into the storage tank. This water will then be moved with a pump back to the shredder to respray for dust control. The shredded material will then be moved with a wheel loader into the concrete storage bins for sampling, analysis, and approval. Once approved it will be loaded out into 40 CY Roll Off Boxes and hauled to the supplier. Landfill will be loaded out into 40 CY Roll Off Boxes and hauled to the supplier. Once approved it will be moved with a wheel loader into the concrete storage bins for sampling, analysis, and approval. The shredded material will then be moved with a wheel loader into the concrete storage bins for sampling, analysis, and approval. Once approved it will be loaded out into 40 CY Roll Off Boxes and hauled to the supplier. Landfill

4. Mechanical Reduction Plan:

PECCO will proceed to excavate the area by live loading into dump trucks and hauling straight to the landfill. Once excavation has been completed we will re-setup the 25 FT X 25 FT grid and resample to confirm all the contamination has been removed. Any areas that still come back hot will be further excavated and resampled for confirmation. This process may possibly need repeated until the samples come back clean for the area. All sampling and excavations will be documented, surveyed, and recorded for the site closure plan which will be provided to the customer, the Energy and Environment Cabinet and anyone else who the customer request.

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P E C C O I N C .

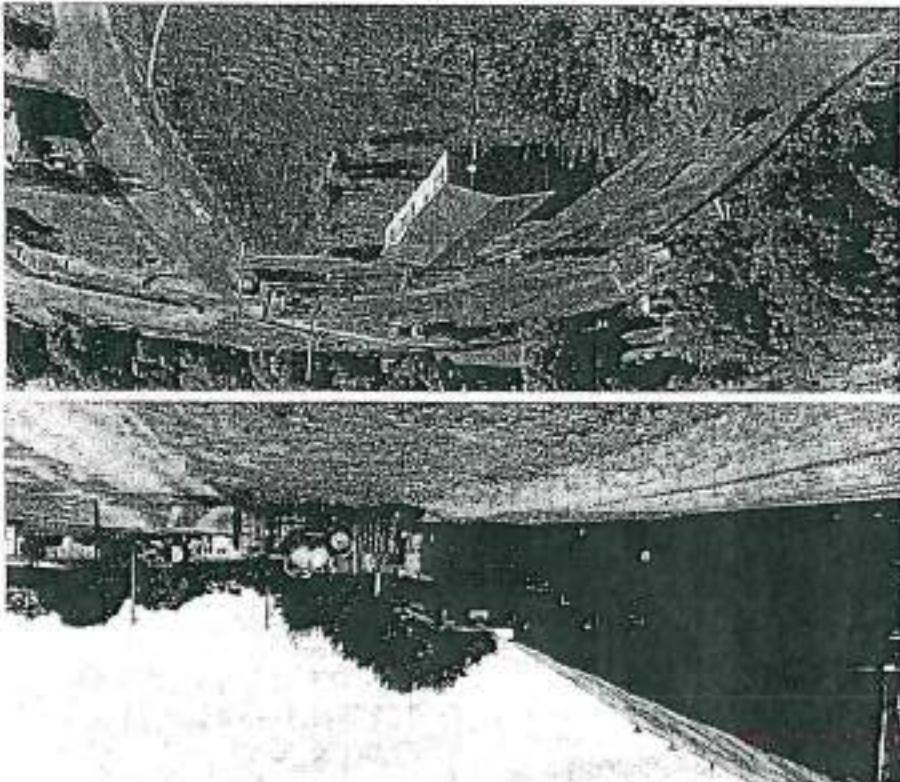
PECCO Inc.

PRICES

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Contracting CO., Inc.
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All Prices Include 5% Change in Work Performance, Equipment, and					
	Description	Quantity	Unit	Estimated	Extended
Mobilization of Equipment	LS	\$ 23,375.25	1.00	\$ 23,375.25	
Mobilization and Setup of Concrete Loading Bins	LS	\$ 17,671.00	1.00	\$ 17,671.00	
Project Engineering and Consulting	LS	\$ 51,500.00	1.00	\$ 51,500.00	
Construction Fence Around Job Area	LF	\$ 6.88	420.00	\$ 2,898.00	
Pre-Construction meeting, Superfund Approval, Waste Froling, as well as Health and Safety Plan	LS	\$ 20,500.00	1.00	\$ 20,500.00	
a-Waste Processing and shredding	TN	\$ 84.73	12,756.00	\$ 1,088,031.58	
Landfill @ Waste Transportation and Disposal Cost	TN	\$ 44.35	12,756.00	\$ 565,728.60	
Terra Bond @ 4% Mix Ratio	TN	\$ 445.43	600.00	\$ 267,858.00	
Contaminated Soil Excavation- Figured off 75'X400' Area and removing the 1 foot of material	TN	\$ 20.40	1,876.00	\$ 38,270.40	
Landfill Contaminated Soil Transportation and Disposal Cost	TH	\$ 42.70	1,876.00	\$ 80,105.20	
Sampling for Contaminated Soil - 75'X25' Sampling Grids	EA	\$ 258.81	116.00	\$ 30,021.96	
Topsoil Fill Material Hauled and Installed 15CY Loads	LD	\$ 512.50	37.00	\$ 18,562.50	
Gray Fill Material Hauled and Installed 15CY Loads if Digging exceeds Bins	LD	\$ 435.63	37.00	\$ 16,118.31	
Optional DGA Fill Material Hauled and Installed Estimate 1,100 Tons	TN	\$ 22.55	-	\$ -	
Seeding and Straking	AC	\$ 2,870.00	1.00	\$ 2,870.00	
Contaminated Water/Sludge from shredder dust control and cleaning of the Building	Gal	\$ 0.62	100,000.00	\$ 62,000.00	
Pressure Wash Cleaning of Building	LS	\$ 26,598.75	1.00	\$ 26,598.75	
Site Closure Plan	LS	\$ 23,575.00	1.00	\$ 23,575.00	
Turndown and De-mobilization of Concrete Loading Bins	LS	\$ 22,181.00	1.00	\$ 22,181.00	
De-Mobilization of Equipment	LS	\$ 25,225.25	1.00	\$ 25,225.25	
Total				\$ 2,386,056.70	

250 Etter Drive, Nicholasville, KY 40356
859-887-5508



Project Scope: Clean and Restore 20 Residential Properties with Arsenic Contamination

Construction Dates: September 2016 - March 2017

Contractor: Rodney Maze - Project Manager for KY DEP Waste MGT 606-782-0246

Owner: KY ERT

Location: Mt Sterling Kentucky

Project Cost: \$ 2.1 Million

Name: Long Lane Arsenic Remediation

* Phone: 659-887-5588 • Tel Fax: 877-545-3599 • Fax: 859-887-5610

Nicholasville, KY 40356

250 Eter Drive

PERDUE ENVIRONMENTAL CONTRACTING COMPANY INC.

Providers of Environmental Services

PECCO, Inc.

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Providers of Environmental Services

PERDUE ENVIRONMENTAL CONTRACTING COMPANY INC.

250 Etter Drive

Nicholasville, KY 40356

• Phone: 859-887-5588 • Tad Fone: 877-543-4398 • Fax: 859-887-5618

Name: Polluck Arsenic Stream Remediation Project Cost: \$ 650,882.00

Location: Ohio Co. Kentucky

Owner: KY DEP Superfund Branch

Contact: Eric Brown- Project Manager for KY DEP Superfund Branch

502-229-6671

Construction Dates: June 2016- August 2016

Project Scope: Clean and Restore Arsenic Contaminated Creek

Project Highlights

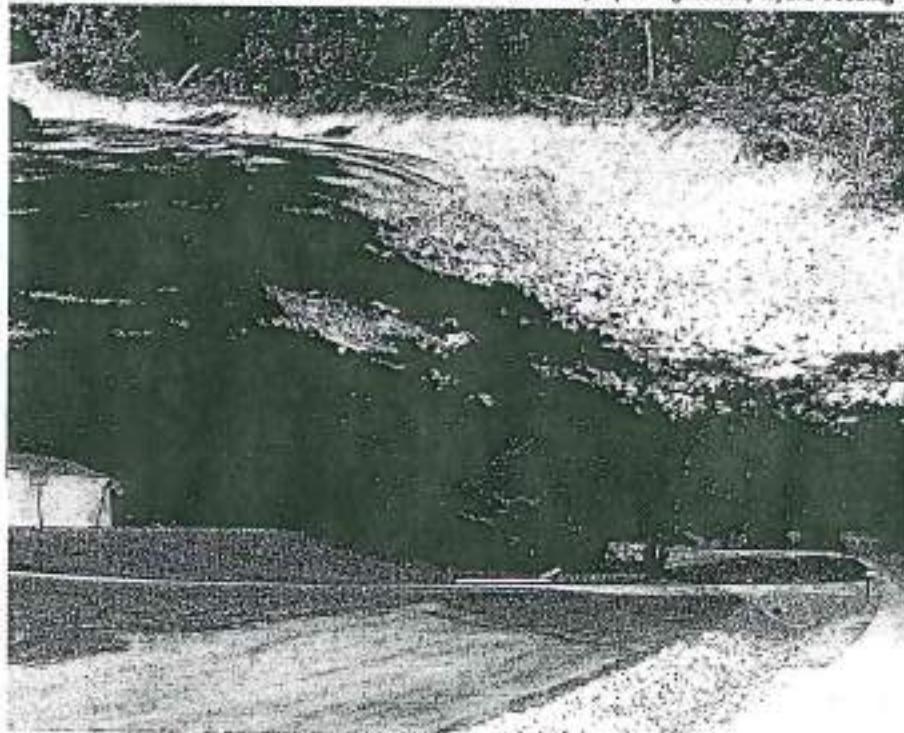
Worked to Clean 4 different properties totalling 5 acres of contaminated dirt

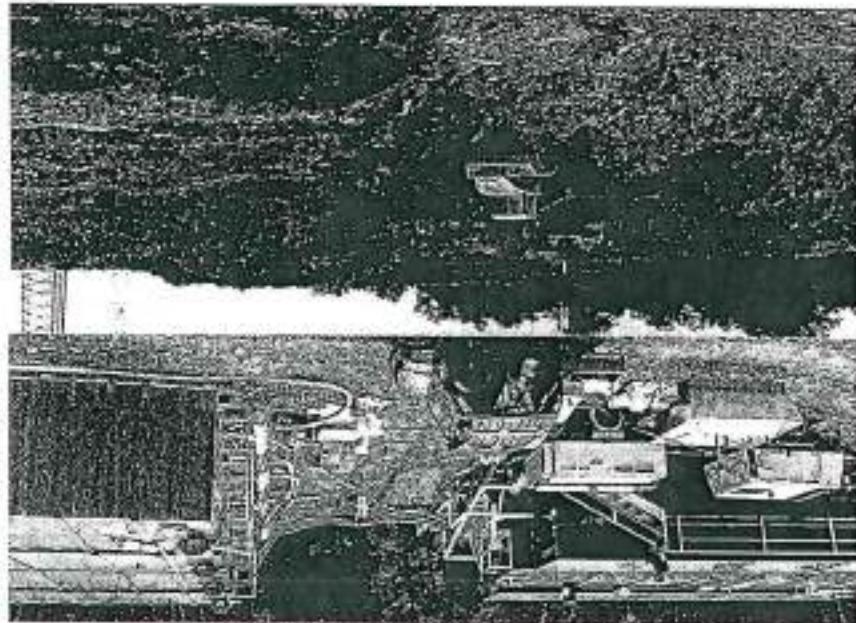
Excavated and Hauled 8,000 tons of arsenic contaminated dirt from the creek

Restored the creek banks to its original engineered design

Hauled in rock and clean fill to restore creek back to drain

Replaced driveways, restored banks and disturbed areas with proper vegetation/ Hydro-Seeding





Project Highlights

41 total acreage including housesold and CDD waste
Waste release of 300,000 cu
Soil cap of 122,020 cu
Contaminated soils removal of 60 cu
Leachate water collection and disposal of 2,837,121 gallons per day
Leachate management and investigation services

Name: Billy Glover Dump Site
Project Cost: \$ 5,300,000.00
Location: Jessamine Co., Kentucky
Owner: Commonwealth of Kentucky
Contractor: Tammy Hudson-KY, Division of Waste Management
Construction Dates: January 2013 - August 2014
502-782-6980

Landfill Experience

* Phone 859-587-5588 * Fax 877-543-4358 * Fax 859-887-5610
Nicholasville, KY 40356
250 Ester Drive
PERDUE ENVIRONMENTAL CONTRACTING COMPANY INC.
Provides Environmental Services
PECCO, INC.

PECCO

e-Waste Project Proposed Schedule

ACTIVITY	Period Highlight 0		Period Plan		Actual		% Complete
	PLAN	START	PLAN	ACTUAL	PERCENT		
<i>Since Periodic 1 week planning on Workday (Wk 7) from 8 am to 5 pm. We expect the job to take 20 weeks from Mobilization to Termination.</i>							
Mobilization of Equipment	1	1	1	0	0	0%	
Mobilization and Setup of Concrete Loading Bins	1	1	0	0	0%		
Project Engineering and Consulting	1	0	0	0	0%		
Construction Fence Around Job Area	1	1	0	0	0%		
Pre Construction meeting, Superfund Approval, Waste Profiling, as well as Health and Safety Plan	0	2	0	0	0%		
e-Waste Processing and shredding	2	12	0	0	0%		
Landfill e-Waste Transportation and Disposal Cost	2	12	0	0	0%		
Terra Bond @ 4% Mix Ratio	2	12	0	0	0%		
Contaminated Soil Excavation- Figured off 75'x400' Area and removing the 1 foot of material	15	2	0	0	0%		
Landfill Contaminated Soil Transportation and Disposal Cost	15	2	0	0	0%		
Sampling for Contaminated Soil- 75'x300' Total Area @ 25'x25' Sampling Grids	13	4	0	0	0%		
Topsoil Fill Material Hauled and Installed 15CY loads	19	1	0	0	0%		
Clay Fill Material Hauled and Installed 25CY Loads if Digging excavant sites	19	1	0	0	0%		
Optional DGA Fill Material Hauled and Installed Estimate ~100 Tons.	29	1	0	0	0%		
Seedling and Scrubbing	19	1	0	0	0%		
Contaminated Water/Sludge from shredder dust control and cleaning of the Building	17	1	0	0	0%		
Pressure Wash Cleaning of Building	14	1	0	0	0%		
Site Closure Plan	20	2	0	0	0%		
Teardown and Demobilization of Concrete Loading Bins	16	1	0	0	0%		
De-Mobilization of Equipment	20	1	0	0	0%		



Smith Manus Surety Bonds
James H. Martin

Very truly yours,

If we can provide you with any further assurances concerning our client's technical expertise or bonding capacity, please call:

In addition, the execution of final bonds would be subject to the review of contract documents by PECCO and the surety providing the bonds. Such review would include contractual terms, bond forms and confirmation of adequate financing. The surety providing the bonds shall retain at all times, the sole discretion to approve or decline any bid, performance and/or payment bonds.

In accordance with normal business practices, our ability to extend suretyship will be based on underwriting of the PECCO account at the time of the PECCO bond request.

PECCO's executive management team, based on our extensive experience in working with the client of Smith Manus Surety Bonds, is highly regarded and valued surety projects in excess of this amount.

Dear Mr. Duttlinger:

Re: Harrison County Fiscal Court
Project - e-Waste Stabilization and Disposal

Mr. David Duttlinger, Executive Director
Bluegrass Area Development District
699 Perimeter Drive
Lexington, KY 40514

April 18, 2019

Smith Manus
SURETY BONDS
The logo consists of a dark green square containing the letters "SM" in a white, stylized, blocky font.

**"REQUEST FOR PROPOSAL
Harrison County e-Waste Stabilization and Disposal"
Wednesday, April 17, 2019**

Attention : David Duttlinger, Executive Director
Bluegrass Area Development District
699 Perimeter Drive
Lexington, KY 40514

Recycling has been the basis of the Kusaskoski operations since the company was established in 1914. We provide international recycling solutions and are known as the leading recycler of metal-based products in Northern Europe. Currently, Kusaskoski operations span seven countries across three continents; Finland, Sweden, Estonia, Russia, Great Britain, China and Germany. The Kusaskoski Group focus is to keep replaceable natural raw materials in production by recycling and refining metals into new raw materials for industry use, through continuous improvement. We pride ourselves on our innovation, safety, and operational excellence.

Kusaskoski Glass, LLC, opened its operations in the fall of 2013. Through the input of multiple state environmental agencies, Kusaskoski sought out a credible partner in CRT leaded glass treatment. In 2012, Kusaskoski US partnered with Peoria Disposal Company. Peoria Disposal has a proven history of treating hazardous waste at their Subtitle D landfill. Containing to date,

Name of Proposer	Marc Artozquui, CEO	Email	lisa_kmeller_legelezwine_program_manager@kunuskoeki.us
General Company Information	LISA Kmeller, Legelizwine Program Manager	Phone	Office: +309.415.0472 Cell: +309.210.5961
Company Website	www.kunuskoeki.us	Phone	
Company Address	Kuusaskoski Glass Recycling 2022 Towline Road Plainfield, IL 61615	Company Phone	309.691.5015
Company Name	Kuusaskoski Glass Recycling	Years in Business	e-Sewards, ISO 14001
Certifications	Kuusaskoski Glass : 6 years Kuusaskoski US : 10 years	Years in Business	Kuusaskoski Global : 105 years

Company Overview

KOSKI
RECYCLING



their process has proven to be the most cost-effective and environmentally sustainable solution. We invite you to our website to view our company video, highlighting our Peoria process: <https://www.kuusakoski.us/our-services/crt-crt-recycling/>

Timeline of Similar or Past Projects

2015 : 18 MM lbs. CRT (whole unit, tubes and crushed glass) cleanup in Central Florida
2016 : 1.5 MM lbs. CRT (whole unit and tube) cleanup in Northern Minnesota
2016 : 1 MM lbs. CRT (tubes) in Northeastern Illinois
2017 : 4 MM lbs. CRT (tubes) in Northeastern Illinois
2015 – Current : 5 – 10 MM lbs. cleanups nationwide

In addition, please see links below to published industry articles referencing Kuusakoski's role in previous CRT cleanup projects.

<https://www.recyclingtoday.com/article/crt-glass-processing-kuusakoski-orb/>

<https://resource-recycling.com/e-scrap/2018/02/15/failed-crt-businesses-honefined-creatives-dreams/>

Scope of Work / Narrative

Scope of Work- from KY warehouse to end of material life;

Whole CRT Tube removal and crushing:

1. Kuusakoski will rent 3 forklifts and 2 scales.
2. Kuusakoski will have 5 employees in the building (3 drivers, 1 cleaner and 1 supervisor), wearing appropriate PPE.
3. Whole CRT Tubes will be packaged in gaylord boxes and loaded into Kuusakoski arranged trucking. Material will be weighed prior to loading and weights recorded. Areas will be broom cleaned after material is removed.
4. Kuusakoski will create necessary shipping documents for each load for transit back to Kuusakoski Glass in Peoria, IL.
5. Material will be removed from trucks when arriving at Kuusakoski Glass, staged for in-house processing. All Kuusakoski Glass EHS procedures will be followed once material arrives at Peoria Facility.
6. Whole CRT Tube material will be processed according to Kuusakoski Glass SOP for glass processing and separation. Processed leaded and panel glass will be shipped to approved downstream(s) by Kuusakoski Glass, on either Manifests or BOL's.

Whole unit CRT TV removal and processing:

1. Kuusakoski will rent 3 forklifts and 1 scale.

(See attached)

Statement of Assurance / Bonding

- Whole Unit CRT TV processing:
1. Material will be unloaded and weighed by Kusaskoski Glass scale. Weights will be recorded.
 2. Whole Unit CRT TVs will be processed according to Kusaskoski Glass EHS procedures. Then material will be staged for in-house processing. All Kusaskoski Glass EHS procedures will be followed once material arrives in Peoria, IL.
 3. Any whole CRT Tubes that are produced from the dismantling process will be processed in-house following appropriate Kusaskoski Glass SOP's and sent to approved downstream(s) on either manifolds or BOL's.

Whole Unit CRT TV processing:

- Whole CRT Tube processing:
1. Material will be unloaded and weighed by Kusaskoski Glass scale. Weights will be recorded.
 2. Whole CRT Tube material will be processed according to Kusaskoski Glass SOP for Glass processing and separation. Processed lead and panel glass will be shipped to approved downstream(s) by Kusaskoski Glass, on either Manifolds or BOL's.

Scope of Work - From Elk Glass to end of material life:

- Scope of Work - From Elk Glass to end of material life:
1. Kusaskoski will have 5 employees in the building (3 drivers, 1 cleaner and 1 supervisor) working appropriate PPE.
 2. Kusaskoski will be loaded into Kusaskoski arrangement trucking. Material will be weighed prior to loading and weights recorded. Areas will be broom cleaned after material is removed.
 3. Whole unit CRT TV's will be loaded into Kusaskoski arrangement trucking. Material will be weighed Kusaskoski will create necessary shipping documents for each load for transit back to Kusaskoski Glass in Peoria, IL.
 4. Kusaskoski will be removed from trucks when arriving at Kusaskoski Glass and staged for in-house dismantling. All Kusaskoski Glass EHS procedures will be followed once material arrives at Peoria Facility.
 5. Material will be removed from trucks when arriving at Kusaskoski Glass and staged for in-house dismantling. All Kusaskoski Glass EHS procedures will be followed once material arrives at Kusaskoski Glass in Peoria, IL.
 6. Whole Unit CRT TVs will be processed according to Kusaskoski Glass SOP for CRT dismantling.
 7. Any whole CRT Tubes that are produced from the dismantling process will be processed in-house following appropriate Kusaskoski Glass SOP's and sent to approved downstream(s) on either manifolds or BOL's.



Site Health and Safety Plan for Central Kentucky e-Waste Stabilization and Disposal Project

Purpose: To outline appropriate steps and procedures for the safe handling of approximately 12,756 tons of electronic scrap located in 2 separate locations in Central Kentucky.

Responsibility and Authority: All employees, contractors, subcontractors (if applicable), and visitors are responsible to follow this Health and Safety Plan. The Project Manager(s) have the authority to approve those allowed on-site, and all must follow the requirements herein.

PPE & Equipment Required

Job activities may include but are not limited to, performing material handling activities, loading/unloading activities, and basic housekeeping. The following PPE is required per job activity:

REQUIRED	Notes
Respirator	✓ Dependent on IH results.
Safety Toed Shoes	✓
Safety Glasses	✓
Cut Resistant Gloves/Sleeves	✓ When handling material
Hard Hat	✓ When material is stored overhead
High Visibility Clothing	✓
Communications	✓ Cell phones and/or 2-way radios
Fire Extinguishers	✓
First Aid Kits	✓
Computer Equipment/Capability	✓ Documentation purposes

PPE will not be permitted to be taken off-site. All disposable PPE will be disposed of at the end of the shift, or as needed, and placed in the proper receptacle for approved handling.

Air Quality & Medical Surveillance

It will be required, unless otherwise agreed upon, for the Managing Agency to perform an Industrial Hygiene assessment prior to work being performed in the facility. This assessment shall be performed in accordance with 29 Code of Federal Regulations (CFR) §1910.1025 and may include both surface sampling and airborne particulate levels, as agreed upon prior to work commencing.

Should the results of the Industrial Hygiene assessment surpass the Threshold Limit Value for Lead at 0.050 mg/m³, it will be required that representatives performing work at the facility undergo medical surveillance pursuant to 29 CFR §1910.1025.

Material Handling

This plan is put in place assuming that the activities performed within the facility may have the potential to disturb contaminated dust. Representatives handling material and/or disturbing potentially contaminated dust are required to wear, at a minimum, an N95 dust mask unless respirators are required per the Industrial Hygiene assessment performed by the Managing Agency.

It is recommended that all representatives on-site performing these clean-up activities do not attempt to climb over or on top of any packaged containers. If any leaking containers are encountered, representatives are required to assess the falling hazard and either (1) correct the leaking container safely, if possible; or (2) do not pass the leaking container until equipment that allows for the safe handling is obtained, and the container can safely be lowered to the ground.

Upon completion of the full clean-up and removal of the estimated 12,756 tons of material, it will be the responsibility of Kusaskoski representatives to ensure the facility is left in a broom-swept condition. Upon completion of the full clean-up and removal of the estimated 12,756 tons of material, it will be the responsibility program. An N95 dust mask will be required, unless the industrial Hygiene assessment requires a respiratory mask. All material is packaged and removed, and all loose debris or material is swept up from the facility floors and packaged for shipment as part of the proposed services. Using only brooms or a dry-mop.

Training Required At a minimum, representatives performing activities on-site must be trained pursuant to 29 CFR 6130.1025. Those representatives operating forklift or other vehicles must be certified to operate those vehicles in the capacity required. Should a respiratory program be required, all representatives shall undergo appropriate medical surveillance and respiratory training, as required under the respective OSHA standards and company policies.

Additional training may include, but is not limited to: lockout/tagout, special PPE training, Cadmium and lead specific training, DOT Hazardous Waste transportation training, material handling and packaging training, and forklift awareness and certification. Those employees preparing a forklift on-site will require forklift operation certification prior to work commencing.

TRANSPORTATION

Kusaskoski management shall secure approved transporters to transport material produced from the clean-up of the facilities. The logistics plan will be communicated to the Managing Agency as the plans are created and executed. Approved transporters will undergo a pre-approval audit prior to being contracted to perform work and ensure appropriate qualification for completing the work contracted. Representatives loading packaged material onto approved transporters may be required to complete appropriate DOT paperwork. If required, those representatives will undergo the above noted training prior to work commencing.

TCLP ANALYSIS

After material is packaged, it will be shipped to Kusaskoski Glass for approved processing (see Scope of Panel (non-leaded/non-hazardous). After processing, the CRT glass is separated between Finner (leaded/hazardous) and Fitter (non-leaded/non-hazardous) - i.e. containing less than 5 ppm for lead. Once stabilized, the material is sent to Perota Disposal Company for chemical stabilization. Once stabilized is completed, the CRT glass is sent to Perota Disposal until 2 TCLP analyses are performed and is confirmed as non-hazardous - i.e. containing less than 5 ppm for lead.

Panel glass (non-hazardous) is TCLP tested every 10 loads to confirm the continued 'non-hazardous' designation.



Chicago, IL · St. Louis, MO
www.assuranceagency.com

April 16, 2019

RE: Bluegrass Area Development District-Kuusakoski, Inc.

To Whom It May Concern:

Washington International Insurance Company currently has the ability to write surety bonds for Kuusakoski, Inc.. An expression of support includes Single Jobs up to \$3,000,000 single within a \$5,000,000 aggregate backlog. Kuusakoski, Inc. has full bonding capacity available.

If Kuusakoski, Inc. is awarded a contract and required to provide Performance and Payment bonds, we will be prepared to execute the bonds subject to our acceptable review of the contract terms and conditions, bond forms, appropriate contract funding and Kuusakoski, Inc. meeting financial underwriting criteria at the time of the request.

Our consideration and issuance of bonds is a matter solely between Kuusakoski, Inc. and ourselves, and we assume no liability to third parties or to you by the issuance of this letter.

We regard Kuusakoski, Inc. as a highly qualified organization, which has demonstrated the ability to perform difficult projects in an admirable manner.

We trust that this information meets your satisfaction. If there are any further questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "William Redlinger".

William Redlinger
Washington International Insurance Company
Attorney-In-Fact

1. What is the primary purpose of a laboratory quality control system?

"**Witness Statement** . The duly sworn **U.S. Presidents and Associate Secretary of Indian Affairs** **Samuel S. Collyer** **Sworn** before me, **John H. Tamm**, **Notary Public**, **on this 11th day of October, A.D. 1870.** I, **John H. Tamm**, **Notary Public**, do hereby certify that the above and foregoing is true and contains only a true transcript of the original instrument. In witness whereof, I have signed my name this 11th day of October, A.D. 1870.

Size of firm	Country of origin	Weighted Reservoir Configuration	Number of firms
Small	U.S.	0.0000000000000000	12
Medium	U.S.	0.0000000000000000	12
Large	U.S.	0.0000000000000000	12
Very Large	U.S.	0.0000000000000000	12
All	U.S.	0.0000000000000000	48

the 11 day of JANUARY, 2011
between **Saint Amantie Specialty Lumber Company**
Woburn, Massachusetts and **Woburn Business Centers**

certification regarding witness's credibility, and any such Plaintiff or Attorney-in-Fact shall have been advised and has been given an opportunity to examine or cross-examine such witness prior to the taking of any deposition.

ULTIMATELY, INDIVIDUALISTS find the ultimate in social influence and the best outlet for their energies may be limited to their local community, and it is

The Xinhua-SEI 2000 and Wissigoniminius Estuarine Estimation by winter counts of the Benthic Estuarine Deltaplano d'Orbigny 1971.

to take and send the damaged property to their respective ports and deliver it for sale, books of entry will remain
with the port authorities for a period of six months. The port authorities will then issue a certificate of delivery to
the shipper, certifying that the damaged property has been delivered to the port authorities.

SOURCE: ALL ABOARD THE SHIP OF FREEDOM, THE NEWSPAPER SPONSORED BY THE AMERICAN COUNCIL ON FOREIGN RELATIONS. A SECTION OF THE NEWSPAPER IS DEVOTED TO THE STUDY OF INTERNATIONAL AFFAIRS.

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
WASHINGTON INTERNATIONAL INSURANCE COMPANY
WISCONSIN INSURANCE CORPORATION
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Original

Waste Management • Remediation • Drilling Services

Central Kentucky e-Waste Stabilization and
Disposal
Cynthiana, KY

Prepared for:

Harrison County Fiscal Court / Bluegrass Area
Development District
Cynthiana, KY

April 2019

11450 Watterson Ct. • Louisville, KY 40299 • 502-267-1455
www.chaseenv.com

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SUMMARY / TECHNICAL APPROACH

1. Introduction

Chase Environmental Group, Inc., (Chase) is pleased to submit this proposal to the Harrison County Fiscal Court for the Central Kentucky e-Waste Stabilization and Disposal located at a former GES occupied facility located at 824 KY HWY 358 in Cynthiana, KY. The proposed remediation is being conducted as a voluntary clean-up measure in accordance with a Corrective Action Plan that Chase will submit to the Superfund Branch of the KY Division of Waste Management (KDWM). This technical approach is being provided for subsequent funding and approval of concept of operations.

Chase provides comprehensive remediation services with a proven track record of successful project completion for the KDWM, including both the Superfund Branch and the UST Branch. Chase demonstrated a thorough understanding of the complexities and overcame the challenges of permitting and successful completion of a similar project requiring lead stabilization utilizing Terra Bond for both the Georgetown, KY buried waste and the remaining remnants and dumping previously encountered at the Cynthiana and Georgetown facility in 2016. The project was completed for the Commonwealth of Kentucky Environmental Protection Cabinet. Additionally, Chase has successfully completed complex remediation projects for the United States Department of Defense, Dept. of Energy, as well as numerous other public and private sector entities.

Specific projects related to processing CRT's and stabilization of similar waste streams is included as Attachment A for reference.

Throughout the execution of this project, Chase will focus on and consistently deliver:

- Safe and efficient performance of all remedial activities;
- Expert guidance on waste minimization and contamination control issues; and
- Provide experienced and trained personnel with the field tested knowledge and qualifications necessary to perform the project requirements in a timely and cost efficient manner.

1.1. Project Organization

Chase Environmental Group is the Prime Contractor for the project. Chase shall provide supervision and field services as required. Key Personnel selected for this project average in excess of 25 years of experience in

Environmental Remediation and Stabilization

4

- Chase will provide all necessary personnel and equipment for site operations. This includes bench scale testing for treatability verification, delivery and staging of processing equipment needed, structural installation for exterior work space coverage, CRT processing, material stabilization and subtitle D disposal. The Project Manager for the project is Brett Mills. Mr. Mills has over 25 years of experience in environmental remediation and waste management. Mr. Mills will supervise all the subcontractors, Jeremy Richardson will be the senior equipment operator and site supervisor. The onsite safety and employee monitoring will be managed cooperatively between the Project Manager, Site Supervisor and Mr. Brown is included as Attachment B for reference.
- Chase Environmental Group, Inc. (Chase), will provide all necessary environmental remediation and health and safety characterization and stabilization, material processing, waste

Chase will prepare the following plans for approval prior to mobilization:

2.1. Pre-mobilization Submittals

2. Work Task

- Chase will coordinate with the Harrison County Fiscal Court liaison and the Environmental Protection Cabinet to provide any deliverables as needed to document property safety, materials management, testing and proper disposal of waste materials will be retained and used for invoking purposes.

1.4. Deliverables

- During fieldwork, a daily tallygate safety meeting, along with a daily plan of the day meeting shall be conducted and recorded.

1.3. Reporting

- The resources for the successful completion of the RFP tasks include skilled and safety conscious field personnel, responsible management, and well maintained tools and equipment. Equipment to be used on site include the following: Komatsu PC180 Excavator w/ thumb, Single and track dump trucks, 2-Fork lifts w/ trailer attachment, 2-skid steer w/ rotator and backhoe attachments, Klemann (Mobile) MC110R processor, Front End Loader and additional equipment as needed.

1.2. Resources

- Brown is included as Attachment B for reference.
- Chase Environmental Group, Inc. (Chase), will provide all necessary personnel and equipment for site operations. This includes bench scale testing for treatability verification, delivery and staging of processing equipment needed, structural installation for exterior work space coverage, CRT processing, material stabilization and subtitle D disposal. The Project Manager for the project is Brett Mills. Mr. Mills has over 25 years of experience in environmental remediation and waste management. Mr. Mills will supervise all the subcontractors, Jeremy Richardson will be the senior equipment operator and site supervisor. The onsite safety and employee monitoring will be managed cooperatively between the Project Manager, Site Supervisor and Mr. Brown is included as Attachment B for reference.
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2.1. Pre-mobilization Submittals

- Hazardous Waste, Superfund and Solid Waste Branch Notification(s) and permit acquisition.

Prior to mobilization, Chase will do an assessment of the building to document existing conditions as follows:

- Status of existing electrical systems and related costs necessary to re-certify and power equipment planned for operations;
- Location for erecting exterior enclosure to be used for processing;
- Status and locations of existing water sources needed for operations, dust control, mixing and restroom facilities;
- Document existing condition of the building(s) and determine what personal items or currently stored items will remain or will need to be relocated / stored elsewhere until space can be controlled for placement;
- Preliminary survey of exterior conditions for existing contamination, site staging, security and restoration.

2.2. Mobilization

Upon satisfactory completion of the project planning effort, Chase will initiate mobilization efforts. All mobilization efforts will be coordinated through the appointed Harrison County Fiscal Court representative and property Owner.

Costs included for the mobilization/demobilization include project preparatory work, structure acquisition and erection, mobilization of equipment and personnel to the jobsite, bench scale testing, HASP and other submittal preparations.

***Costs related to re-certifying the existing wafer and electrical components within the building are currently unknown and will be determined / evaluated prior to mobilization and in conjunction with the current building Owner.*

2.3. Soil Erosion and Sediment Control

Chase will install silt fencing for run on and run off control. Straw Bales will be placed as needed in areas of excessive water movement as defined during rain events while in operation.

Equipment used includes a tracked skid steer with a trenching attachment. A three person crew will install the erosion control fencing as defined. A *site map is included as Attachment D* for reference.

2.4. Temporary Facilities and Controls

Chase will be constructing an exterior 60' x 80' ClearSpan fabric structure and will also be utilizing the existing building for site operations and over site personnel. A mobile hotspot will be used inside the building for internet access. A room inside the structure will be detail cleaned for storage of air

An exterior area just beyond the concrete rear area of the building will be used for the stabilization process. The Clearspan fabric confinement structure approximately 65' x 80' will be used to perform this task. The

2.7. Material Processing Within the facility, glass will be crushed along the aisle spaces of the facility. Glass will be transported to the front of the building and placed within the existing depression bay (24' x 50' x 4'). Chase will utilize 2 operators and 2 rotator equipped loaders or forklifts to maneuver stored items to the bay for processing. This bay will be used until space is sufficient for placement of the processing unit inside the building. The processing unit will be set to break, crush and grind the materials prior to stabilization material will exit the processor at a rate of approximately 10 - 20 tons/hr and drop from conveyor to a truck which will exit to a working stockpile located outside the facility beneath the ClearSpan enclosure.

BUSINESS & PROFESSIONS

The framework has been included in the current costs provided for remediation and backfilling of areas anticipated to be contaminated by site operations and processing based on historical completed operations. See section 3 items 4.

Chase will coordinate with the Environmental Pollution Cabinet to complete a baseline survey of all areas prior to the beginning of work. The baseline will be used to determine an estimated cost related to cleaning the exterior of the building to determine an estimated cost related to cleaning the interior of the building to <400 ppm lead (Pb) prior to initiating field operations. Once the baseline survey is complete, a cost will be provided based on existing conditions (known or scurately measured) volumes for removal, potential treatment and subsequent landfill disposal.

Z.B. Surveying

- Digits will be positioned around the perimeter of the building as applicable to notify all approaching persons that a potential lead hazard is present within the building.
 - Multiple, portable ABC Fire Extinguisher will be positioned for immediate access.
 - A portable eye-wash will be positioned near the work area.
 - All equipment necessary for processing, material loaded and mixing, staging or other planned activities shall be installed and positioned.

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first aid supplies and other related consumables and equipment.

perimeter will be connected to precast concrete for stability and functionality. The processed material will be transported from the stockpile into the containment by use of a front end loader or dump truck. Once the initial processed volume reaches 100 tons, samples will be collected and sent for bench scale treatability analysis.

Processing and staging materials will continue while creating 250 tons stockpiles for treatment. Based on the treatability analysis, Terra Bond will be added at a rate defined from the bench scale analysis and mixed with an excavator until it is visually uniformly mixed. Stabilized material will be analyzed at a rate of one TCLP Metals sample per 250 tons or as defined by the Landfill as an acceptable rate for process verification and monitoring during the project.

Prepare and submit a waste disposal profile to obtain disposal approval at a Subtitle D Landfill (Non-Hazardous) for the waste stream following on-site stabilization. Items containing no visual signs of CRT debris, ie. pallets, plastics, cardboard or other identified non-impacted material will be segregated and placed into a compactor located on site at the point of removal and shipped off-site as non-hazardous waste under a separate profile if necessary. The waste stream for the stabilized waste (requiring treatment) will include impacted items processed and the treatment agent required for stabilization. All waste streams defined will be subjected to additional characterization sampling as necessary to ensure proper management and disposal.

The treatment stockpile (contaminated material stockpile) will be prepared by creating a "U" shape contour on one side of the pile. Chase has selected TerraBond treatment additive to reduce leachable lead concentrations. Based on a previous treatability study provided in January 2016, it was determined that an addition rate of 3.5% will successfully treat leachable lead to under the characteristic limit for lead. Chase will utilize a 4% Terrabond addition rate for this scope of work. The quantity will be based on measured volume of material stockpiled prior to treatment. Following treatment, the material will be re-tested at a rate of 1 composite sample / 250 tons to confirm the material has been reduced to below the characteristic limit of 5.0 mg/L. If TCLP lead results of the composite sample are > 5.0 mg/L TCLP, the stockpile will be marked and additional treatment will occur.

The treatment additive will be delivered in tarped end-dump trailers or super-sacks and will be delivered wetted to minimize dusting. The average delivered product weight of TerraBond per truckload is =22 tons or 1,800 lbs / super-sack. To minimize additive handling, the contaminated stockpile will be sized appropriately to accommodate a predetermined quantity of treatment additive. Trucks will be shipped with appropriate amounts based on volume estimates provided. Delivery drivers will be directed to back into the depression or "U" shaped contour of the pile and deposit the treatment additive within that area. Once the additive is unloaded, the excavator

In addition to the large storage area inside the facility and the material that will be transported for treatment from the Windchester location, there are other anticipated localized areas of contamination that will be identified for removal and possible stabilization. It is assumed that local areas for removal will be transported to specialized areas of coring material that will be delivered to the facility and containmation will be performed by Chase. Stale personnel will utilize XRF to determine subsequent treatment by Chase. Stale personnel will remove areas that have been stabilized before moving to other areas on the property. It is estimated that Chase will remove approximately 4'-6' from each defined area and stage for completion before moving to other areas in these areas has been stabilizatorily areas and confirm that removal in these areas has been stabilized.

The confirmatory requirements for EPA SW-846 Method 6200, the minimum treatment Surface samples will be collected following removal of materials, it is one sample per 20 XRF readings (5%). Based on preliminary estimates, it is anticipated that Chase will collect up to 10 composite samples for Total Lead analysis as confirmation that the surface areas have been effectively remediated. All excavated surface areas will be backfilled with DGA upon completion as applicable.

2.10. Exterior Surface Contamination

Chase has accepted this material under same or similar treatment from the Georgetown buried materials extraction / stabilization performed by Chase for the Lois Jean Oliver Estate, Georgetown, KY; processed material stabilization performed by Chase for Sturt Recycling, Georgetown KY; the Cynthiana former GES facility performed by Geomagdown KY; the Cynthiana former GES facility performed by Chase on stored sand Cynthiana, KY, for the Department of Environmental Protection; and also dumped material at the Cynthiana Facility for the Department of Environmental Protection.

Chase will utilize a combination of front end loader or excavator to dump truck for movement of the material to an approved Subtitle D landfill. At this time, Republic Waste Services, Epperson Waste Disposal Landfill has been selected for this purpose. Epperson Waste Disposal Landfill has been selected for this purpose. Epperson Landfill is located at 2360 Cynthiana Road, Williamstown, KY.

2.9. Load, Transport and Disposal

Indicators that thorough mixing has occurred include: (1) visual homogeneity of the material throughout the pile; (2) visual inspection to ensure larger pieces of CRTs have been broken into smaller particles; and; (3) spot checks of pH to confirm there is minimal variance throughout the pile.

Mixing involves a folding motion with the excavator bucket to incorporate and evenly mix the soil with the treatment additive. This process typically requires approximately 4-6 hours from the time mixing begins. After the materials are mixed, the stockpiles will be sampled for compliance prior to shipment.

operator will cover the additive with processed CRTs and impacted debris from the stockpile while a water mist is applied and commerce mixing.

The stockpiled material will be tested for TCLP analysis prior to determining treatment / disposal options. Soils will remain covered and secured pending analysis. Should treatment be required, procedures as defined above will be implemented, re-tested and disposed.

2.11. Protection of Personnel, Training and Final Cleaning of Building

1910.1025 – Lead exposure regulations will be applicable to on-site operations and controls related to personnel exposures during the processing and stabilization process. All personnel will have received the 40 hr HAZWOPER and any required 8 hr Refresher prior to being utilized on property. Additionally, medicals will be required to ensure ability to wear a respirator as necessary in compliance with OSHA for possible Lead exposure.

All site personnel will be subjected to pre and post blood lead monitoring and ZPP testing if working at this location. Chase will conduct an initial exposure determination for each identified task performed in the process. Examples include:

- Operators transporting and dumping material into the processor;
- Processor operator;
- Front end loader operator;
- Stabilization mixing operator; and
- load out personnel.

In the absence of a negative exposure determination, all personnel will be required to wear a respirator while performing job tasks.

Final cleaning of the building will be related to general cleaning of walls and floor spaces only. Ledsolv or Tri Sodium Phosphate solutions will be applied in the cleaning process to bind and remove lead residual as applicable from the floors and side walls. A light pressure washer will be used to assist in the process. A water will be collected and mixed into the processed material for disposal. Should additional requirements for cleaning be applied, Chase can address those requirements upon receipt of a detailed specification from the Fiscal Court, EPA or building owner following completion of the processing and general cleaning prior to demobilization.

2.12. Equipment Decontamination

Prior to leaving the site, equipment tracks/buckets or other machine parts that have been in contact with impacted materials will be decontaminated. Chase will construct a temporary decontamination pad in the vicinity of the water source on site. Poly sheeting will be placed on the ground and bermed on all sides. Chase will utilize pressure washing equipment to remove any solid material from the equipment. Water used for decontamination will be

- 4.3. Site Demobilization
- Upon completion of the processing, stabilization, waste disposal, interim remedial activities, all contractor equipment and materials shall be removed from the site. All waste and contractor equipment and materials shall be demobilized. All remaining material (dry solids) prior to disposal, pumped into a drum and disposed of as nonhazardous or mixed into any remaining material (dry solids) prior to disposal.
3. Pricing assumptions
1. Electrical connectivity and re-connection of the current building mechanical and electrical systems will need to be evaluated by a certified electrician and certified plumber to ensure that the current systems are acceptable for use prior to mobilization. Water and electrical power sources or water sources have been included in the provided costs.
2. Owner stored items will need to be relocated or staged in an off-site area until acceptable space is available for reusing the materials to the structure. Chase has allowed no cost for removal, relocation of Owners stored materials prior to or during the mobilization process.
3. Pricing assumes that both the water sources and electrical sources are sufficient for sustainable use with the proper electrical capacity and fluid capacity needed and no additional modifications beyond electrical connections or fluid hoses will be necessary. Chase has included estimated connections or fluid hoses will be necessary prior to mobilization. Chase has included estimated monthly utility costs based on historical operations in the pricing provided and has also included incidental electrical costs.
4. Chase has not included pricing to perform a baseline survey of the exterior areas prior to mobilization. However, Chase has included an allowance for exterior removal. Chase has included estimated connections for exterior exterior cleanup performed in Georgia.
5. Chase will place a compactor inside the building for managing the cardboard and other non impact, non-hazardous material removed. The compactor will need to be direct wired for operation and will be removed upon completion.
4. Contractors Utilized
- 4.1. Waste Disposal
- Republic Services
Epperson Waste Disposal Landfill

2360 Cynthiana Road
Williamstown, KY.

4.2. Waste Processor
Chase Environmental Group, Inc.
11450 Watterson Court
Louisville, KY. 40299

4.3. Waste Transportation
To Be Determined

4.4. Stabilization Material - Terra Bond
Terra Materials, LLC
11711 N. College Avenue, Suite 170
Carmel, IN 46032

5. Key Employees

5.1. Michael B. Mills, Principal
Vice President / Louisville Operations Manager
Chase Environmental Group, Inc.

5.2. D. Dwaine Brown, ES&H Manager
Chase Environmental Group, Inc.

6. Scheduled Duration

6.1. 6 Months processing and site restoration - *Attachment E* for reference

7. Proposed Costs

7.1. *Attachment F* for reference

PROJECT NAME:	Buried Waste Extraction / Stabilization - Surface Soil Stabilization
Total Price:	\$295,000
Work Description - General:	Chase Environmental Group, Inc. completed the extraction of buried CRTs from historical operations conducted by GES in Georgetown, KY. Chase performed personnel monitoring for lead exposure while extracting and segregating buried CRTs for disposal. Chase installed site barriers to control run-on / run-off from the area and established sites conditions for operation. During extraction, materials were segregated and staged prior to extraction. Chase installed site barriers to control run-on / run-off from the area and established site conditions for operation. During extraction, materials were segregated and staged prior to extraction. Chase excavated areas for subsequent treatment with Terra Bond for stabilization purposes prior to TCLP Analysis. Analysis was performed on a 250 ton basis prior to shipment to confirm placement at the landfill. Approximately 1,000 tons of material was removed, treated and disposed prior to discharge. Upon completion, the area was backfilled and compacted to grade.
Additional Notes:	Approximately impacted groundwater was encountered during excavation that required pre-treatment prior to discharge. Chase conducted groundwater sampling for lead concentrations in the soil. A representative sample of the lead concentration was taken for analysis. Results indicated lead concentrations up to 400 ppm were present in the soil. Areas where XRF screening was higher than 400 ppm were marked. Chase excavated these areas and segregated the material that had no visible evidence of CRT material. The excavation continued until subsequent XRF readings indicated the lead concentrations were below the 400 ppm level. Confirmatory samples were collected for verification.
In addition to the buried waste, approximately 150 tons of unsorted soil and debris were disposed.	The site was bracketed and compacted to grade upon completion.
Location: 109 Tupper Road, Georgetown, KY.	
Regulatory Basis (CERCLA, RCRA, etc.): OSHA.	
Contaminants:	• Chemical: Lead, Metals • Radiological (Includes isotopes and assay): None • Biological: None
Schedule Duration	90 Days
Contact:	Louis Oliver Estate Chadene Heimer, Executive Chadene.heimer@gmail.com
Client Name:	Louis Oliver Estate

PROJECT DESCRIPTIONS

ATTACHMENT A

PROJECT NAME: Spotsylvania Oil Refinery - Soil Stabilization - Site Restoration							
Total Price:	\$269,000						
<p>Work Description - General: Chase Environmental Group, Inc. (Chase) was contracted through the Division of Engineering to implement a soil removal and stabilization project involving hydrocarbon and lead impacted sludge and soil from a historical oil refinery operation. The site had to be cleared for access and a haul road constructed. The area was sectioned in to grids for characterization, analysis and subsequent bench scale testing for stabilization mixture required for treatment.</p> <p>Prior to extraction, Chase installed silt barriers to control run-on / run-off from the areas and established site controls for operations. During extraction, materials were segregated and staged adjacent to the excavation area for subsequent treatment with Terra Bond for stabilization purposes prior to TCLP Analysis. Analysis was performed on a 250 ton basis prior to shipment to confirm acceptance at the landfill.</p> <p>Chase provided all required personnel and equipment for the successful removal and stabilization of 1,560 tons of impacted lead soil and an additional 692 tons of petroleum impacted material. Both were safely transported to a Subtitle D landfill for disposal. The site was screened with an XRF following removal to verify < 400 ppm lead remaining prior to backfill.</p> <p>Chase purchased, transported and placed approx 2,000 tons of virgin fill to re contour the site and establish drainage, removed the haul rod and applied seed and straw to the areas prior to exit from the property.</p>							
Location: Henderson, KY							
<p>Regulatory Basis (CERCLA, RCRA, etc.): OSHA</p> <p>Contaminants:</p> <ul style="list-style-type: none"> • Chemical: Lead, Metals, Hydrocarbons • Radiological (including isotopes and assay): None • Biological: None 							
<p>Schedule Duration 90 Days</p> <table> <tr> <td>Client Name:</td><td>Division of Engineering</td></tr> <tr> <td>Contact:</td><td>Finance and Administration Cabinet</td></tr> <tr> <td>Contact:</td><td>Mark.Strevels@ky.gov</td></tr> </table>		Client Name:	Division of Engineering	Contact:	Finance and Administration Cabinet	Contact:	Mark.Strevels@ky.gov
Client Name:	Division of Engineering						
Contact:	Finance and Administration Cabinet						
Contact:	Mark.Strevels@ky.gov						

PROJECT NAME: Site Characterization and Remediation of Former Refractory Manufacturing	
Facility	Total Price: \$6.5 M
Work Description: Chase Environmental Group, Inc., performed a site characterization and decommissioning for a 16 acre site formerly used for refractory manufacturing. The raw products used in the manufacturing process contained concentrations of natural uranium and thorium detected as source material. The facility was issued a radioactive materials license in the 70's for processing of source material. In the 1940's and 50's, mold sand and discarded refractory were used to level the site, and as the activity expanded, manufacturing and warehousing were built over the previous filled areas. In preparation for license termination, a site wide surface scan discovered areas where materials were placed. Extensive subsurface investigations by Chase demonstrated that the remediation was necessary for license termination. Once the extent of all plowment had been identified, extensive planning was undertaken to determine the acceptable methods for remediation of the site. Several plans were developed and submitted to the State for approval including the excavation, transportation and disposal of over 140,000 tons of soil, concrete, and refractory.	
The remediation included the separation of refractory pieces from the sand using mechanical screens. The refractory pieces were disposed at a suitable landfill as exempt source material per 10 CFR 40.13(a). The remaining fill sand was disposed as special waste at a subtitle D landfill. Several buildings, that were located in the affected area, were left onsite. Once all the fill material was removed, a final site survey of the open land areas and the buildings were completed per MARSSIM. Survey reports were submitted to the State for license termination. The site has been backfilled with 70,000 tons of soil, graded and seeded. With permanent site closure, the intent of the site decommissioning was the release of the site for unrestricted use and termination of the radioactive materials license.	
Regulatory Basis: Site Decommissioning for Radioactive Material License Termination	
Location: Louisville, KY	
Containments:	
* Uranium and Thorium (Source Material) per 10 CFR 40.13	
Schedule Duration: 3 years	
Client Name: Saint Gobain Ceramics and Plastics, Inc.	
Address: 9200 Schleyville Road, Suite 531, Louisville, KY 40222	
Contact: Mr. Mel Newell	
Phone Number: 502-329-7610	

PROJECT NAME: Building Renovation**Total Price:**

\$860,000

Work Description - General: Chase Environmental Group, Inc. completed the interior demolition, asbestos abatement and lead based paint stabilization within the 135,000 SF structure known as the Edison Building.

Prior to abatement Chase personnel demolished/removed all interior walls, HVAC systems, electrical system, boiler systems, and piping/water systems from within the structure. All antennae, stair cases, stovepipes, wires and other encumbrances from the exterior of the building were removed. Approximately 360 tons of recyclable materials were removed from the structure and properly recycled. Approximately 400 cubic yards of non-recyclable material was taken for landfill disposal.

Phase Two included asbestos abatement of the following items:

- Clean approximately 45,000 SF of gross contamination;
- 3,500 LF of pipe insulation;
- 38,000 SF floor tile associated mastic adhesives;
- 560-4' x 8' sections of metal frame windows (glazing);
- 330 SF heat pad insulator;
- 730 SF transite panels;
- 24 LF small diameter furnace flue; and
- 80 LF of 3' diameter furnace flue from building exterior.

All painted walls, ceilings, and steel support structures and beams were brush blasted to prepare for LBC encapsulation. All waste media was removed via Vac-Truck. The client opted to not encapsulated the walls as they were scheduled to be foam insulated. All ceiling and steel support structures and beams were then double coated with LBC.

Location: Louisville, KY**Regulatory Basis (CERCLA, RCRA, etc.):** OSHA,**Contaminants:**

- Chemical: Asbestos, lead
- Radiological (including isotopes and assay): None
- Biological: None

Schedule Duration

180 Days

Client Name:

Edison Center, LLC

Contact:

Ken Brown, 502-515-2489

Contact:

ken@citypropertiesgroup.com

PROJECT NAME: State Superfund "Bartel Services"	
Total Price:	\$199,485.00
Work Description - General: Chase Environmental Group (Chase) was contracted by the Commonwealth of Kentucky, Superfund Branch to provide asbestos abatement, characterization and removal of stored chemicals and contaminated debris from an abandoned property located in downtown Louisville, KY. The site was previously operated as a recycling facility but accepted various hazardous wastes centralized residue hazardous wastes in the process. Chase was asked to segregate all stored containers, remove asbestos from the boiler systems, recycle all possible materials, and dispose solid waste and characterize and dispose of residual hazardous wastes remaining.	
PCB Soils - 25,664 lbs disposed > 50ppm to an approved Hazardous Waste Disposal Facility.	
Hazardous Waste Water - 5,448 gallons centralized, transported and disposed.	
Special Waste Soils / Debris - 450 tons prepared centralized, transported and disposed;	
Recycled Plastics - 41,960 lbs of poly drums were compacted, banded and baled for recycle;	
Asbestos Abatement—Asbestos containing materials (ACM) identified on the abandoned building were removed and disposed.	
The entire site damage system was cleaned, plugged and reinforced to deter any remaining movement of surface water from the site.	
The project was completed in 35 days at 75% of the proposed cost of completion.	
Location: Bartel Services, Louisville, Kentucky	
Regulatory Basis (CERCLA, RCRA, etc.): RCRA, Special Waste, Asbestos and Recycling	
Contaminants: • Chemical: Numerous Chemical Contaminants	
Schedule Duration: 35 Days	
Client Name: Commonwealth of Kentucky / Superfund Branch	
Address: 14 Reilly Road Nashua, New Hampshire / Linen Board	
Contact: Nathan Hancock / Linen Board	
Phone Number: 502-364-6716	

ATTACHMENT B

RESUMES OF KEY PERSONNEL

	POSITION	TITLE
Michael Brett Mills	Principal	Principal / Sr. Project Manager
Education/Qualifications:		
B.S. Environmental Engineering, Murray State University, 40-Hour HAZWOPER Training & Annual Refresher Training Advanced Hazardous Material Management, Environmental Management Agency Hazardous Waste Site Operations, 40 hours, University of Louisville 30-hour OSHA Construction Supervisor Miscellaneous: HWSW Supervisor/Manager, OSHA Construction Safety, Industrial Safety Manager, Confined Space, HazCom, Lock- out-Tag-out, Respiratory Protection, TSD Kentucky Certified Underground Storage Tank Remover DOT Shipping and Handling Asbestos and Lead Supervisor Training (current), K.Y., TN., IN. Wrecking / Demolition Supervisor, Lic#00098, City of Louisville Certified Corrective Action Contractor, State of Tennessee 16-hr Radiation Safety / Mixed Waste Handling		
Relevant Experience:		
Mr. Mills is a Principal and Sr. Project Manager with Chase Environmental Group, Inc. Mr. Mills provides a solid background in special, hazardous, chemical and low-level radioactive waste management. Mr. Mills focus is primarily Government owned facilities which he assists in planning, budgeting, specifications, remedial and investigative service areas. Specific tasks include personnel management, budgeting, proposal preparation and client relations, quality assurance, corporate planning and Sr. onsite Project Management. Mr. Mills also assists in preparing corporate policy pertaining to occupational health and safety issues and develops site specific, safety, health and emergency response plans for applicable projects. In addition, Mr. Mills also manages remedial projects, site investigations, and facility consultation services and acts as the Safety and QA/QC compliance officer on more complex projects for the company. Mr. Mills is an active member on the company Board of Directors and holds an elected position of Vice President.		
Project Management		
Mr. Mills has over 23 years of management and field experience and has performed project management duties for various remedial projects, site investigations, unknown chemical identification / segregation / disposal, general consulting, and safety services. Mr. Mills has overseen projects pertaining to the biological and chemical treatment of contaminated soils, dual-phase extraction of petroleum hydrocarbons, stabilization of heavy metals, asbestos abatement, mold remediation, lead paint abatement and waste characterization and disposal. Mr. Mills is the Principal in charge of all State of Kentucky Agencies and Facilities.		
Mr. Mills has performed Phase I Environmental Site Assessments in accordance with the ASTM, "Standard Practice for Environmental Site Assessments", for various types of sites, from shopping		

Occupational Health and Safety

Mr. Mills served as Program Coordinator for the University of Louisville's Hazardous Materials Training Center. As Program Coordinator, his duties included curriculum development, implementation, and training in such safety and health programs (910, 120, 1926, 62, etc.). Major areas of responsibility included centers to unimproved / improved parcels of property. His responsibilities have included site investigation, property history research, site activities research, aerial photography interpretation, and report development. His site investigations include unknown and known chemical constituents, radioactive waste, lead, mold and asbestos surveys.

Since joining Chase Environmental Group, Mr. Mills performs the duties of E&H manager on multiple technical and administrative / developmental projects for private industrial and governmental clients. He performs monitoring for hazardous substance removal and environmental health and safety plans, reviews of occupant health monitoring data, and establishes personnel protective equipment for workers.

Waste Disposal

Mr. Mills has consulted in waste management for hazardous and mixed (low-level radioactive and hazardous) wastes for private and government owned facilities. Experience includes developing regulations requirements for generators, transporters, and treatment storage and disposal facilities; rules for private and government hazardous wastes; and guidelines regarding handling hazardous waste issues.

Employment History:

- 1993 Chase Environmental Group, Inc., Project Manager / Vice President - Present.
- University of Louisville, Program Coordinator/Hazardous Materials Training Center, 1990
- Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Division of Hazardous Waste, Environmental Specialist, 1989-1990.
- Commonwealth of Kentucky, Radiation Protection, Senior Chemist, 1987-1989.

D. DWAYNE BROWN
132 Sage Lane, Johnson City, TN 37601
Home: (423) 202-3422 Cellular: (281) 851-0068
E-mail: dwaynebrown@charter.net
dwbrown@chasesax.com

PROFESSIONAL PROFILE

have extensive experience in the nuclear industry as a technician, radiological engineer, Health Physicist, Supervisor, Radiation Safety Officer and B&H Manager, including training of domestic and international Radiation Safety Officers. I have worked as a technician during outages at both pressurized and boiling water reactors, and as a radiological engineer in construction and startup of five pressurized water reactors focused on effluent monitoring systems, as Supervisor of Radiological Controls at a commercial boiling water reactor, Global Radiation Protection Manager for a multi-national corporation responsible for licensed activities associated with the petroleum exploration industry in 106 countries, and 2 SNRC and 14 Agreement State licenses, and RSO/HSE Manager for a resin processing facility processing high activity resins from commercial reactors.

graduated from the U.S. Navy Nuclear Power School and was qualified as a Leading Engineering Laboratory Technician and Engineering Watch Supervisor. Following my discharge from the Navy as a Chief Petty Officer I received a Bachelor of Science Degree in Nuclear Technology from the University of the State of New York (now Excelsior College). I am currently a member Board of Directors for the National Registry for Radiation Protection Technologists. And a member of the ANSI/HPS N13 Standards review committee.

PROFESSIONAL EXPERIENCE

Chase Environmental Group, Inc.
Corporate Health and Safety Manager

July 2016 to Present

responsible for:

Maintenance of the Corporate Health and Safety Program
Development of the Hazard Communications program and supporting procedures
Continuous assessment of Company programs, projects and equipment to ensure that Safety equipment and programs are properly maintained and utilized.
Development and presentation of Health and Safety training topics
Health and Safety audits of Chase Facilities and projects to maintain health and safety awareness at all Company levels.
On call time availability and presence at Chase project sites and facilities to fully support the implementation of a sound safety program.

Consultant
Johnson City, TN

May 2015 to July 2016

Health and Safety Manager for the radiological characterization and remediation of a research facility consisting of 10 laboratory buildings and approximately 700 individual research laboratories. Specific phases of the project entailed; asbestos abatement, radiological characterization, decontamination of fume hoods and ducting, removal of fume hoods and ducting which could not be decontaminated, and packaging and shipment of the removed components.

Coordination of shipment of radioactive sources from a US licensee to a Canadian licensee which included the collection of all associated source documentation and Type A container certifications.

Irwin ResinSolutions, LLC
Formerly Studsvik Processing Facility, LLC
Irwin, TN
Radiation Safety Officer

October 2012 to May 2015

- 2
- Maintained licensees and permits associated with radioactive materials, liquid and gaseous effluents issued by the State of Tennessee and the Federal government.
 - Daily oversight and direction of the Radiological Control staff.
 - Developed and implemented sound training for the Radiological Control Technicians.
 - Developed and presented Radiological Worker Training to the facility staff.
 - Developed and planned daily activities with facility operators and maintenance personnel.
 - Implemented and reviewed Radiological Control Procedures.
 - Managed, merged, and reviewed Radiological Control Department Policies.
 - Developed and overawarded licenses of radioactive materials per the facility radioactive materials license.
 - Maintained OSHA logs and records.
 - Overawed the investigation of all OSHA recordable/trackable incidents.
 - Evaluated and provided guidance to support qualified space entry and rescue.
 - Evaluated and provided full protection equipment.
 - Provided progressive monitoring/sampling equipment for all health hazards in the workplace.
 - Maintained qualified space entry work permit, and job safety analysis log books.
 - DT-Site Source Recovery Project
 - Subcontracted to Los Alamos National Laboratory under Yucca & Associates
 - October 2008 to September 2011
 - Provided support services for the National Nuclear Security Administration (NNSA), Global Threat Reduction Project-Site Source Recovery Project
 - August 1997 to August 2008
 - Fullerton Energy Services, Inc.
 - Total Radiation Protection Manager
 - Houston, TX
 - Performed shielding calculations of source storage facilities
 - Fullerton Energy Services, Inc.
 - Houston, TX
 - Responsible for:
 - Nuclear Regulatory Commission radioactive materials licensees.
 - Tritium Agreement State radioactive materials licensees.
 - Pulse neutron generators.
 - Measurement, use, procurement of sealed sources.
 - Research and development (Technology)
 - Measurement and development of sealed sources.
 - Pulse neutron generators.

- o Radioactive tracers
- Radiation safety training
- Radioactive material transportation domestic and international
- Oversight of the radiation dosimetry program
- Facility closures
- Accountability and control radioactive sources
- Safety and security of radioactive sources
- Explosives safety program
- Audits of facilities
- Corporate Radiation Safety

Exxon Nucular NUS
Charleston, SC
Environmental Projects Manager/Safety Officer

June 1993 to August 1997

- Responsible for:
- Site characterization plans
 - Sampling and analysis plans
 - Decommissioning plans
 - Decommissioning funding plans
 - NRC license renewals
 - Program technical support
 - Occupational Safety Officer
 - Health physics support
 - National Environmental Policy Act (NEPA) documentation preparation
 - General health physics consulting

UST Geotech, Inc.
Department of Energy
Grand Junction Projects Office
Manager Radiation Protection Programs

January 1990 to May 1993

- Radiological control program
- Uranium Mill Tailings Recovery Act (UMTRA)
- Defense Decontamination and Decommissioning (D&D) Programs
- Programmatic audits of compliance
- Department of Energy Radiological Controls Manual
- Facility Safety Analysis Report
- Chemical hazard and chemical safety
- Chairman of the ALARA Committee
- Hazardous Materials First Response
- Radioactive source control program

Illinois Power Company
Linton Power Station
Supervisor of Radiological Controls
Responsible for:

November 1987 to December 1989

- Respiratory protection
- Personnel dosimetry
- ALARA Program
- Field instrument calibration and maintenance

³ Nuclear Technology/Health Physics Technologies, University of the State of New York (now Escambia College).

- D. Dwaine Brown, Steve Woods, Decommissioning of a Reactor Component Decontamination Facility, Annual Meeting of the American Nuclear Society, San Diego, CA, June 2003
- D. Dwaine Brown, A Simple Discussion of Biological Damage in Support of Code of Federal Regulation Exposure Limits, NRRPT Newsletter, September 2003
- D. Dwaine Brown, Transportation Regulations and the ALARA Principle, 2004 International ALARA Symposium, Kissimmee, FL 2004
- D. Dwaine Brown, A Simplified Approach to Radioactive Material Shipping, 49th Annual Meeting of the Health Physics Society, July 2004, Washington, D.C.
- D. Dwaine Brown, Well Logging Using Radioactive Sources, 50th Annual Meeting of the Health Physics Society, July 2005, Spokane, WA
- D. Dwaine Brown, Steve Woods, Safeguards and Security at a Facility Level, ANS Winter Meeting 2006, November 2006, Albuquerque, NM
- D. Dwaine Brown, Steve Woods, Transportation Regulations and the ALARA Principle, 51st Annual Meeting of the Health Physics Society, June 2006, Providence, RI
- D. Dwaine Brown, Steve Woods, Implementation of the USNRC Increased Controls Order, 52nd Annual Meeting of the Health Physics Society, July 2007, Portland, OR
- D. Dwaine Brown, Instructed a Professional Enrichment Program Course, Transportation of Radioactive Material, North American ISOE Conference, January 2008, Fort Lauderdale, FL
- D. Dwaine Brown, Steve Woods, Transportation Regulations and Radiation Safety, 53rd Annual Meeting of the Health Physics Society, July 2008, Pittsburgh, PA

CHASE ENVIRONMENTAL GROUP COMPANY AND
PERSONNEL QUALIFICATIONS (by state)

Kentucky Radioactive Materials License #201-605-90 (Reciprocity in all states)

KY Certified Corrective Action Company - #0014
Dixy Env. - KY Certified Correction Action Company - #47

Steve Sturdevant - No. LU0000117
Licensed Underground Storage Tank Removal Contractor;

Mark Rusi - TR0000118
Brett Mills - TR0009455
Todd Mills - TR0009454
Karen E. Crawford No. 17138
Registered Professional Engineers
Notice for Permit to Practice Engineering #939

Mark K. Gartner - No. 2307
Registered Professional Geologists

Water Well & Monitoring Well Drillers License
Jeff Brownfield - 0344-0441-00
Todd Mills - 0344-0454-00
Dax Brack - 0344-0485-0
Mark Gartner 0344-0544-00
Nathan Ferree 0370-0518-00

Brett Mills - CL2-375-1
Asbestos Abatement Contractor
Brett Mills - S11-03-0603

City of Louisville Wrecking Supervisor License
Brett Mills Wrecking Supervisor License - #00098
City of Louisville Wrecking Contractor License - #W0239

NON STATE SPECIFIC

Certificate of Core Radiological Training – Radworker II

Mark Rust

Jeff Brownfield

Todd Mills

Dax Brack

Mark Gartner

Ray Joseph

Mixed Waste Shipper Certification Training

Various Radiological Services Personnel

US DOT Shipping Haz & Rad Materials Certification

Various Radiological Services Personnel

UST Cathodic Protection Tester – (Steel tank Institute)

Steve Sturdevant - #CP41307

Hazardous Materials Certification - 06161400S009WY

ALL PERSONNEL TRAINED IN:

Basic Radworker

40 Hr. Haz Waste Site Workers

Lead/Cadmium

Confined Space Entry

OSHA Competent Person

First Aid, CPR

E-Rail Safe

Third Party Subcontractor Approval

Browz

Veriforce

TRAC

ISNetwork

CSP-001	Corporate Safety Program	
CSP-002	Medical Surveillance	
CSP-003	Safety Program Administration	
CSP-004	Project Health and Safety Analysis	
CSP-005	Training	
CSP-006	Inspections and Audits	
CSP-007	Injury, Incident Investigation, Response and Reporting	
CSP-008	Substance Abuse	
CSP-009-01	Bloodborne Pathogens	
CSP-009-02	Compressed Gas Cylinder Safety	
CSP-009-03	Concrete Construction	
CSP-009-04	Demolition	
CSP-009-05	Confined Space Entry	
CSP-009-06	Emergency Action Plans	
CSP-009-07	Trenching and Excavation	
CSP-009-08	Electrical Safety	
CSP-009-09	Emergency Response	
CSP-009-10	Fall Protection	
CSP-009-11	First Aid	
CSP-009-12	Fire Protection and Prevention	
CSP-009-13	Hand and Power Tools	
CSP-009-14	Working with Lead	
CSP-009-15	Working with Solids	
CSP-009-16-01	Working with Asbestos	
CSP-009-16-02	Working with Silica	
CSP-009-16-03	Working with Boronite	
CSP-009-16-04	Working with Arsenic	
CSP-009-16-05	Masonry Vapor Monitoring Using the Jerome 431-X Analyzer	
CSP-009-16-06	Masonry Vapor Monitoring Using the Jerome 431-X Analyzer	
CSP-009-16-07	Hexavalent Chromium Air Sampling	
CSP-009-16-08	Working with Cadmium and Hexavalent Chromium	
CSP-009-16-09	Housekeeping	
CSP-009-16-10	Decontamination	
CSP-009-16-11	Lockout/Tagout	
CSP-009-16-12	Materiel Handling, Storage, Use and Disposal	
CSP-009-16-13	Motor Vehicles, Machinery, and Mechanical	
CSP-009-16-14	Personal Protective Equipment (PPE)	
CSP-009-16-15	Power Transmission	
CSP-009-16-16	Respiratory Protection	
CSP-009-16-17	Sanitation	
CSP-009-16-18	Safeholding	
CSP-009-16-19	Lifts, Cranes, Hoists, and Powered Industrial Trucks	
CSP-009-20	Lockout/Tagout	
CSP-009-21	Materiel Handling, Storage, Use and Disposal	
CSP-009-22	Motor Vehicles, Machinery, and Mechanical	
CSP-009-23	Equipment	
CSP-009-24	Personal Protective Equipment (PPE)	
CSP-009-25	Power Transmission	
CSP-009-26	Respiratory Protection	
CSP-009-27	Sanitation	
CSP-009-28	Safeholding	
CSP-009-29	Signs, Signals, and Barriers	
CSP-009-30	Stairways and Ladders	
CSP-009-31	Sub-Contractor Safety	
CSP-009-33	Ventilation	

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TABLE OF CONTENT

HEALTH AND SAFETY PLAN (HASP)

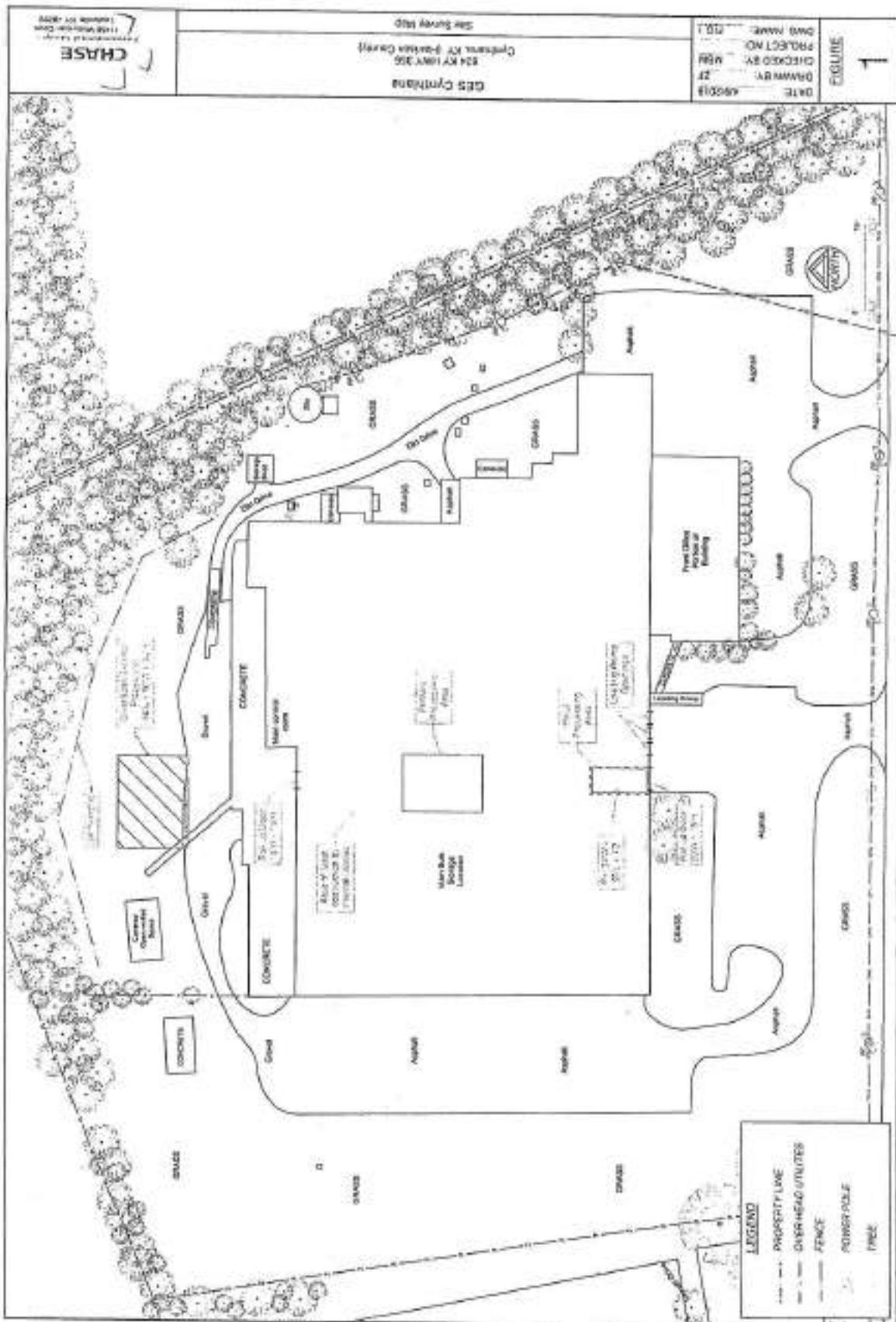
ATTACHMENT C

Chase Environmental Group, Inc – Corporate Safety Manual - Index

CSP-009-34	Welding and Cutting
CSP-009-35	Workplace Violence
CSP-009-36	Hearing Conservation
CSP-009-37	Hazardous Waste Operations (HAZWOPER)
CSP-009-39	Hazard Communication (HAZCOM)
CSP-009-40	Hot Work Permit
CSP-010	Fatigue Management
CSP-011	Temperature Extremes
CSP-012	EntryRAE Multi-Gas Monitor Operation
CSP-013	QRAE II Multi-Gas Monitor Operation
CSP-014	Hydrogen Sulfide (H ₂ S) Awareness and Controls
CSP-015	Slip, Trip, and Fall Prevention Program

ATTACHMENT D

SITE MAP

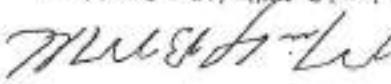


ATTACHMENT E

PROPOSED SCHEDULE

H-7 Operational Ready House Scheduling and Timeline - Proposed Schedule									
#	Task Name	Description	Start	End	Lead	Mr.	Mr.	Mr.	Mr.
0	Project Assisted		1-May	Mon 03/03/19	Alan 600318				
1	Site Evaluation, Planning, Stakeholder, Map	20 days	Mon 03/11/19	Fri 03/15/19					
2	Toolability Study, Tools Procurement	10 days	Mon 03/18/19	Fri 03/29/19					
3	Procurement at 3020 Grand Rd	120 days	Mon 03/18/19	Mon 07/01/19					
4	Procurement, Stakeholders, Tools and Equipment	120 days	Mon 03/18/19	Fri 12/13/19					
5	Clean Building and Exterior Services Removal & Wash	10 days	Mon 03/18/19	Fri 03/29/19					
6									

APPENDIX E

Proposed Costs	Mobilization - \$250,000.00	Mobilization costs consist of the following:	Plans, Permitting, Building Evaluation, Clearspan Base Construction, Clearspan Compactor Installation, Equipment Mobilization, Personnel Mobilization and building purchase and erection, Silt fencing, Treatability Study, Profiling, Processing, Stabilization, Transportation and Disposal - \$0.10 / lb	Costs are based on tonnage total provided in the RFP. Exterior cleanup, backfill and building cleaning are included in the per ton costs assuming the total tonnage estimated is at or greater than the tonnage estimate provided.	Based on allowances as defined in our technical proposal. (200 tons total disposal, <15 days 3 person crew and equipment, State XRF Support, 250 tons DGA backfill and 10 people 2 weeks to clean building)	No Costs are included for the Following - Licensed Electrician or licensed Plumber to evaluate and certify the building utilities are acceptable for use.	Respectfully Submitted, Michael B. Mills / Vice President  Chase Environmental Group, Inc
Exterior Cleanup, Backfill and Building Clean - \$135,000.00							
Processing, Stabilization, Transportation and Disposal - \$0.10 / lb							
Plants, Permitting, Building Evaluation, Clearspan Base Construction, Clearspan Compactor Installation, Equipment Mobilization, Personnel Mobilization and building purchase and erection, Silt fencing, Treatability Study, Profiling, Processing, Stabilization, Transportation and Disposal - \$0.10 / lb							
Mobilization							

PRICING / BID BOND

ATTACHMENT E

AIA® Document A310™ - 2010

Bid Bond

CONTRACTOR:

(Name, legal status and address)
Cross Environmental Group, Inc.
11450 Petersen Court
Louisville, KY 40250

OWNER:

(Name, legal status and address) Harrison County Fiscal Court
111 E. Main Street
Suite 201
Cynthiana, KY 41031

BOND AMOUNT: Five Percent of the Amount Bid

PROJECT:

(Name, location or address, and Project number, if any)
Central Kentucky II-Waste Stabilization and Disposal - Electronics Processing and Stabilization for Subtitle-D Landfill Deposit

SURETY:

(Name, legal status and principal place of business)
Union Insurance Company
10800 Glendale Road
Suite 100
Louisville, KY 40223

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its compilation or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner; for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent to an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location where it is given, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted and any provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. In such event, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 18th day of April, 2010

Kim Schulte Jeffrey Miller
(Contractor) (Surety)

Sharon Quinn Greg Meier
(Owner) (Attorney-In-Fact)



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Whichever way people who know nothing and with blind to demand any measure company of other person, fees and application for insurance of claim concerning any information concerning any fact material details.

ANSWER SHEET

18



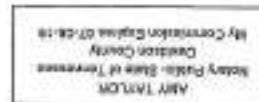
Signed and Sealed at Marion Judicial Tennessee this 18th Day of April 2019

1. The Underinsured Benefit Section of LEXON INSURANCE COMPANY. A "freeze" insurance Company. DO HERREY CERTIFY that this original Power of Attorney is in full force and effect and has not been revoked and the responsibilities as set forth are now in force.

CERTIFICATE

ANSWER

八



As the President of LEXON INSURANCE COMPANY, he coproduced some films to educate people about the dangers of smoking, and he also produced the *By-Laws of Good Conduct*.

ACKNOWLEDGMENT

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八〇



LUXON INSURANCE COMPANY

Based on the findings of the 2nd day of June, 2018.

Resolved, that the signature of the President and the seal of the Associated Secretary, and the seal of the Company may be added by resolution to any power of attorney granted, and that such power of attorney shall be limited to any act or acts which it is intended to be valid and binding on the Company.

This authority is made under and by the authority of a resolution which was passed by the Board of Directors of LEXON INSURANCE COMPANY on the 1st day of July, 2002 as follows:

NOW ALL YOU NEED IS THREE PRESENTS. The LexXon Insurance Company, a Texas corporation, will be sending home offers to Aussies. Take a deep breath, count off three presents. It's time, guys. Here's how it works: LexXon Insurance Company offers Aussies a benefit of sorts, my and all sorts, underwriting coverage for other writings elsewhere in nature of a bond.

Exxon Insurance Company

LX-11078

POWER OF ATTORNEY