



**ADDENDUM NO. 4
Issued April 18, 2013**

TO

**REQUEST FOR PROPOSALS
("RFP")**

FOR

**PHASE II MSW AREA CLOSURE
AND PHOTOVOLTAIC SYSTEM PROJECT
CRRRA HARTFORD LANDFILL**

**(RFP Number FY13-EN-003)
(RFP Issued March 18, 2013)**

Note: Proposers are required to acknowledge this and all Addenda in Section 5(a) of the SOQ Form.

1. NOTICE OF EXTENSION OF PROPOSAL DUE DATE

As per this Addendum 4, the deadline by which sealed proposals will be submitted to CRRA, as referenced in section 2 (RFP Projected Timeline) and section 9 (Proposal Submittal Procedures) of the Instructions to Proposers (Section 2 of the RFP Package documents) is hereby extended until 3pm Eastern Time, Friday, April 26, 2013.

2. ANSWERS TO SUBMITTED QUESTIONS

This Addendum consists of the Connecticut Resources Recovery Authority's responses to written questions that were received by CRRA by 12 noon, Thursday, April 11, 2013.

1.	Question	Has the closure design been approved/permited by DEEP?
	Answer	Yes, the proposed alternative closure design was approved by DEEP in "AUTHORIZATION FOR THE MODIFICATION OF APPROVED CLOSURE PLAN FOR THE HARTFORD LANDFILL", issued December 28, 2011.
2.	Question	If the closure design has been approved by DEEP, was a ballasted solar system installed on the cap system considered as part of the approval?
	Answer	Yes.
3.	Question	Are there any other permits required for the solar array other than the building and electrical permits? If yes, would CRRA be responsible for obtaining them?
	Answer	CRRA is not aware of any additional required permits beyond any local building or electrical permits.
4.	Question	Does the maximum allowable bearing pressure of the solar equipment and ballast of 200 pounds per square foot include only dead loads?
	Answer	The note on Detail #3, Sheet C-5.02 and the note on Detail #3 on Sheet C-5.04 referring to a maximum allowable bearing pressure of the solar equipment and ballast of 200 pounds per square foot is incorrect. These notes shall be replaced with the following: "NOTE: FOUNDATION SYSTEM, PV RACKING SYSTEM, AND PV SYSTEM SHALL BE DESIGNED BY CONTRACTOR AND SHALL NOT EXCEED A MAXIMUM BEARING PRESSURE OF 1500 PSF (10.4 PSI), OR THE MAXIMUM BEARING PRESSURE RECOMMENDED BY THE CLOSURE SYSTEM MANUFACTURER, WHICHEVER IS LESS."
5.	Question	Would CRRA consider modifying the plans to include inverters other than the 250 kV specified?
	Answer	CRRA's approved interconnection was based on the equipment specified in the specification and drawings. Proposers who propose inverters other than the 250kV specified would be required to receive approval for those inverters from CL&P, at Proposers own cost.
6.	Question	Who is the off taker for the power, and what will happen to excess power generated not used onsite?

	Answer	CRRA will utilize a small amount of the power generated to offset some on-site demand. As of this date it is CRRA's intention to sell excess power to CL&P through an existing tariff.
7.	Question	What is the status of the interconnection agreement? Has it been executed?
	Answer	CL&P has approved CRRA's application to interconnect the proposed solar EGF. CRRA anticipates signing the interconnection agreement by May 31, 2013.
8.	Question	Is Fuss & O'Neill allowed to bid on this work as part of a team?
	Answer	No.
9.	Question	Is Heliosage allowed to bid on this as part of a team?
	Answer	No.
10.	Question	What CQC/certification will be required?
	Answer	The qualifications for the contractor and its subcontractor are outlined in the specifications. Warranty requirements for products as well as their installation are also outlined in the specifications.
11.	Question	Can the general fill that is to be provided by the contractor be regulated soil? If so, what is the criteria for the Hartford Landfill?
	Answer	Proposer must submit at least one Proposal Option assuming General Fill and Cap Base Material are clean (not regulated soil). Proposer may submit alternative Option(s) utilizing regulated soil for General Fill and/or Cap Base Material. If Proposer submits alternative(s) utilizing regulated soil, such soil must 1) be utilized below the cap, 2) contain constituents at levels below the CRRA's Special Waste Acceptance Requirements For Soil (appended to this Addendum), and 3) meet the physical requirements of "General Fill". If Proposer submits alternative(s) utilizing regulated soil, Proposer must provide information on such soil including but not limited to the source of the soil and the pollutants that impact the soil. CRRA reserves the right to accept or reject proposals to utilize alternative soils, or negotiate for the acceptance to utilize alternative soils.
12.	Question	Specification section 32 31 13.03 – Chain Link Fence refers to top and bottom rails for the fence. The drawings indicate to remove and relocate the existing fence. The existing fence only has top and bottom tension wires and no rails. Are the rails to be added when relocated? Or are we to include only the tension wires? Please clarify.
	Answer	References to top and bottom rails are for new chain link fence only. Additional rails are not required for relocated portions of fence.
13.	Question	The bid documents states "The proposed design incorporates improvements to this swale, which includes rehabilitation of existing concrete as well as new concrete armoring to achieve increased capacity and a consistent cross section."

		<p>The existing concrete swale has so much debris the concrete is not visible, therefore the extent of repairs is unknown. At the site visit it was mentioned that the swale is to receive a concrete topping along with the proposed concrete armoring. There are no details that show the concrete topping of the existing concrete swale. On the northern end of the swale the concrete ends and the balance of the swale is silted rip-rap. There are no limits shown on the drawings.</p> <p>Please provide a detail for the concrete topping and address repairs. Please provide dimensions for the removal of the rip-rap to provide for the installation of a new concrete swale.</p>
	Answer	Please see revised detail SK-01 included in this addendum. Please note that Contractor shall be paid for the additional work included in the revised detail under Pay Item 22 "Drainage Outfall Improvements" and the cost of this work should be included in Proposer's price for this item.
14.	Question	The bid documents call for 100 days to complete this work. I have been informed that the time frame to design, submit and procure the solar equipment may take as long as 4 to 6 months. Will the total days for completion be changed?
	Answer	<p>Exhibit D – Project Schedule is hereby amended as follows:</p> <p>"A total of one hundred eighty (180) days are allowed to complete the Work and have such Work ready for acceptance by CRRA. The contract time under the Agreement will commence to run as defined in the Notice to Proceed pursuant to Section 4.2 of the Agreement. Completion of the work shall include: complete installation of the membrane cap and associated drainage systems and complete installation, approval by CL&P, and interconnection of the solar photovoltaic system.</p> <p>After work is complete, within 30 days Contractor shall furnish CRRA with all documents required by the Agreement, including but not limited to, As-Built Drawings, Warranties, Operation and Maintenance Manuals, and any other document required by the Agreement."</p>
15.	Question	<p>Just want to clarify what is included in this item in regard to fill. The description discusses ... "fill, subgrade preparation, rough grading the site with on-site material, ..."</p> <p>Is the fill mentioned also referring to the onsite fill mentioned later in that sentence or is it additional fill that needs to be brought onsite to achieve grades, above and beyond the 15,000 in pay item No. 5? And is this item encompass only the southeast paved area?</p>
	Answer	For information on what is included in the General Fill Pay Items 4 and 5, please refer to General Requirements Section 01012 "Pay Items".
16.	Question	Can the compacted fill for the anchor trenches as shown on detail 4 on sheet C-5.04 be backfilled with the material that is excavated for the trenches?

	Answer	Yes, if the material meets the definition of “General Fill” in the “Landfill Earthwork” specification (Section 02 66 21) of the specifications.
17.	Question	Can the compacted fill for the anchor trenches as shown on detail 4 on sheet C-5.04 be backfilled with regulated soil?
	Answer	Please see answers to questions 11 and 16.
18.	Question	Detail 4 on sheet C-5.04 shows the supplemental gas pipe located directly beneath the liner. Detail 5 on sheet C-5.06 shows the top of the supplemental gas pipe 12” below the liner. Which is correct?
	Answer	Detail 5 on Sheet 5.06 is correct. Detail 4 on sheet 5.04 is hereby modified to place the “Supplemental Gas Lateral” a minimum of 12 inches below the liner with a minimum of 6 inches of bedding sand around the pipe.
19.	Question	If we encounter existing gas piping while installing the anchor trenches as shown on detail 4 sheet C-5.04. What is to be done with the existing gas pipe and how do we get compensated for this work?
	Answer	Existing gas piping is shown on the “Existing Conditions Map” (Sheet V-1.02). Anchor trenches should be installed to avoid these areas to the extent possible. If piping cannot be avoided or is accidentally discovered in another location, the repair/relocation of this piping, if necessary, will be performed by others.
20.	Question	Detail 4 on sheet C-5.04 shows the anchor trenches to be 3’ deep. Detail 5 on sheet C-5.06 shows the top of the gas pipe to be located 12” below the liner. It is likely that the anchor trenches and gas piping will either cross each other or be in the same location. If this occurs what is the detail?
	Answer	Anchor trenches should be installed to avoid existing and proposed piping to the extent possible. Proposers should confirm all crossings of anchor trench and existing/proposed piping is acceptable to the manufacturer(s) and/or their geotechnical consultants.
21.	Question	Detail 5 on sheet C-5.06 shows the gas piping being capped at some unknown dimension from the vertical riser. What is this dimension? What are the tees that are shown to be 20’ from the vertical riser for?
	Answer	Detail 5 on Sheet C-5.06 is a detail depicting various piping connections and dimensions. The 20-foot dimension on this detail is intended to depict where solid wall and perforated pipe is required. The actual limits of gas piping and locations of various connections (e.g., tees) are shown on the “Supplemental Gas System Plan” (Sheet C-1.41).
22.	Question	Are the existing vertical gas pipe risers to remain and be booted through the liner system?
	Answer	Yes.
23.	Question	Firestone will not recommend an anchoring pattern for trenching required to anchor the exposed TPO membrane, there response was it is the responsibility of the design engineer. Could we get a recommendation on a pattern for these trenches?
	Answer	If the Contractor is unable receive guidance from the manufacturer on anchor

		trench size and spacing, the Contractor is responsible for providing design calculations as required by Part 1.6-C(2) of the “Exposed TPO Alternative” specification (Section 02 66 54).
24.	Question	Firestone said they will supply a black polypropylene welding rod for welding for welding the TPO membrane (Polyolefin membrane), depending on the color of the membrane desired it may not match the color. Is this acceptable?
	Answer	If a TPO alternative is proposed, the Contractor should indicate the proposed color alternatives that the owner may choose from in their proposal. This shall include the color that will be visible at the seams.
25.	Question	We have been in contact with the Firestone representative inquiring about their recommendation for the spacing of the anchor trenches as stated in the bid documents for the TPO liner system. Firestone will not make this recommendation. What is the required spacing of these anchor trenches?
	Answer	See the response to #23 above.
26.	Question	If a Contractor wishes to offer a Value Engineering or cost savings alternate how should it be included in the proposal?
	Answer	For a Proposer to be considered, they must submit a proposal for at least one of the nine different options on the Proposal Price Form. Value engineering or cost savings alternates should be provided by Proposer in as much detail as possible and submitted with Proposer’s proposal.
27.	Question	The proposal states a construction schedule of 100 days from the Notice to Proceed. How much time will the contractor be afforded from the Notice of Award to the Notice to Proceed for the submittal, approval and procurement related to the chosen liner, solar and electrical options?
	Answer	Please see answer to question 14. Additionally, CRRA anticipates the following timeline for the project: Notice of Award issued to selected Proposer – on or about June 1, 2013, Contract executed – on or about June 15, 2013, Notice to Proceed issued – on or about June 15, 2013, Contract start date defined in Notice to Proceed – on or about June 21, 2013. Completion Date – on or about December 18, 2013.
28.	Question	What is the anticipated Notice of Award date and is there a required or mandatory completion date for the closure?
	Answer	The Notice of Award is expected to be issued approximately June 1, 2013. See answers to Questions 14 and 27 regarding the Completion Date.
29.	Question	What are the allowable work hours at the site?
	Answer	Allowable work hours at the site are from 6:00am to 5:00pm, Monday through Friday. CRRA will consider requests for work hours beyond those times.
30.	Question	Can you advise what the typical depth of cover is on the site?

	Answer	Although not confirmed by digging test pits, CRRA believes the depth of cover over the majority of the closure area is 24 inches or greater.
31.	Question	If waste is encountered, ie. anchor trenches, where is the waste to be disposed and how is that paid?
	Answer	Any waste that is encountered during the excavation of anchor trenches or other trenches required to complete the work will be disposed of on-site in an area within the project limits designated by CRRA.
32.	Question	Where stripping of the landfill maybe required is there a location for stockpiling on-site?
	Answer	Stockpiling of soils is allowed anywhere within the existing, uncapped landfill area. CRRA may consider stockpile areas on existing capped areas of the landfill if the contractor manages those stockpiles to prevent soil loss and to prevent runoff from the stockpiles onto the existing capped areas of the landfill.
33.	Question	Item #4 General Fill (provided by Owner), the unit is TON, the material is stated as coming from onsite stockpile. How will this item be weighed?
	Answer	This item will be weighed by CRRA staff on the existing, registered truck scale at the site.
34.	Question	Item #11 Penetration Sealing and Booting, the quantity of 1 and unit of each does not look correct. There are numerous penetration/boots, is this lump sum or unit price. Please clarify.
	Answer	The unit price quantity for item #11 – “Penetration Sealing and Booting” is incorrect. The correct quantity should be 60. CRRA has updated its Proposal Price Form to reflect this change.
35.	Question	Can you please provide clarification on the limits or descriptions for items #21 and #22. There seems to be an overlap on the descriptions and a significant difference or inconsistency on pricing between these items as they pertain to the different liner systems.
	Answer	For the Closure Turf Alternative, the Contractor shall provide Item #21 – “Energy Dissipation system” at the base of the downchutes as depicted on Detail 3 on Sheet C-3.01. For the Exposed TPO Alternative, the Contractor shall provide Item #21 – “Energy Dissipation system” as depicted on Detail 4 on Sheet C-3.01 along the entire length of the “Cast in Place Concrete Armoring” section shown on Sheets C-1.33 and C-1.34. A description of what is required for Item #21 and Item #22 is located in Exhibit B, General Requirements, Pay Items (Section 01012).
36.	Question	Note 1 on drawing C-1.41 states the configuration of Supplemental Gas System is intended to be illustrative. Final proposed configuration shall be submitted to the Engineer for approval. Can the Contractor rely on the configuration shown on C-1.41 or if not, to what extent is the Contractor expected to design the lay-out?
	Answer	The Contractor may rely on the configuration depicted on Sheet C-1.41 as a basis of design. Modifications or improvements to this configuration may be sub-

		mitted to the engineer for review and approval.
37.	Question	What is the Contractor’s responsibility/liability related to settlement of the landfill and the potential for damage to the lining system or performance of the solar system?
	Answer	The Contractor has no responsibility/liability related to settlement of the landfill and the potential for damage to the lining system or performance of the solar system caused by such settlement.
38.	Question	In the Instructions to Proposers, Sect 11 (f), the Proposal Rate Schedule Form in word format down loaded from website does not allow input. Please unlock the word file.
	Answer	The Word format version of the Proposal Rate Schedule Form that is posted on the website has been unlocked and re-posted to the website as of 11:15 am on April 15, 2013. Please note that the content of this form has not changed.
39.	Question	On RFB Exhibit 7, Schedule A Criteria for Small Business Enterprise & Schedule B Criteria for Minority Owned Business Enterprise- please clarify if the program is Federal, CT or local.
	Answer	Exhibit 7 references Connecticut law and regulations.
40.	Question	We respectfully request a two-week extension so that we way present the best possible proposal to the Owner.
	Answer	Please refer to Section 1 of this Addendum 4.

3. REVISION TO SECTION 4.2 OF THE AGREEMENT

Section 4.2 of the Form of the Agreement (Section 7 of the RFP Package Documents) is hereby replaced with the following text:

“CRRA and Contractor hereby acknowledge and agree that time is of the essence with respect to Contractor’s performance of the Work hereunder. Accordingly, upon CRRA’s issuance to Contractor of a notice to proceed with the Work (the “Notice To Proceed”), Contractor shall commence performance of the Work by the date the Contract Time starts (as defined in the Notice to Proceed) and continue to perform the same during the term of this Agreement in accordance with the schedule set forth in attached Exhibit D in order to complete all of the Work and have such Work ready for CRRA’s acceptance as specified in Exhibit D (the “Completion Date”).

CRRA and Contractor recognize the difficulties involved in proving actual damages and losses suffered by CRRA if the Work is not completed and ready for CRRA’s acceptance by the Completion Date. Accordingly, instead of requiring any such proof, CRRA and Contractor agree that as liquidated damages for any such delay in completion or readiness for acceptance (but not as a penalty) Contractor shall pay CRRA one thousand dollars (\$1,000.00) for each calendar day beyond the Completion Date that Contractor fails to complete all of the Work or have the same ready for CRRA’s acceptance until all such Work is completed by Contractor and readied by Contractor for acceptance by CRRA.

The parties further agree that liquidated damages in this Section 4.2 are reasonable and have been agreed upon and intended by the parties because the damages expected under this Section are uncertain and difficult to prove.”

4. ATTACHMENTS

The following documents are attached hereto and made a part hereof this Addendum 4:

- **CRRA’s Special Waste Acceptance Requirements For Soil**
- **Revised detail for topping existing swale with concrete**

END OF ADDENDUM 4

SPECIAL WASTE ACCEPTANCE REQUIREMENTS FOR SOIL

Hartford Landfill

Connecticut Resources Recovery Authority

1. No special waste soil will be accepted at the Hartford Landfill without a Special Waste Authorization issued by the Connecticut Department of Energy and Environmental Protection (DEEP).
2. The waste generator and applicant must complete a Waste Profile Form in its entirety (see attached).
3. The generator and applicant must certify that the soil is not a hazardous waste pursuant to 40 CFR 261 and RCRA 22A-449(c), that the soil has not been mixed with a hazardous waste or, if it does contain a listed hazardous waste, it is considered non-hazardous under Connecticut's RCRA "Contained-In" Policy, that the soil does not contain a regulated infectious material, that the soil is not a regulated radioactive material, and that the soil does not contain PCBs regulated by 40 CFR Part 761.
4. All soil sampling and chemical analyses used to characterize the soil must be conducted in accordance with 40 CFR 261.20 through 40 CFR 261.24 (inclusive), Appendix I, II and III to 40 CFR 261, and the sampling requirements defined in the DEEP's most recent revision of the Instructions for Completing the Authorization Application for Disposal of Special Waste (Including Asbestos), DEP-WEED-INST-200, including sampling and analytical procedures described in "Test Methods for Evaluation of Solid Waste, Physical/Chemical Methods", SW-846.
5. When characterizing soils, all samples must be representative of the source material. Sampling frequencies must comply with SW-846 and the minimum requirements for the collection of both grab and composite samples established in the table below, based on the total volume of material to be characterized. Grab sample locations must be representative of the location(s) exhibiting the greatest contamination based on field observations (organic vapor field analyses, visual observations, odors, etc.) and generator knowledge or, if no evidence of contamination is present, will be representative of the source material based on best professional judgment. Each composite sample will be comprised of 8 individual grab samples. As loss of volatiles is a concern for composite samples, the grab sample that represents the greatest contamination of the 8 individual grabs will be used in place of the composite sample when volatile analysis of composite samples is required. When sampling stockpiles, samples will be collected from a depth of at least 12 inches below the surface of the pile. A sketch must be provided indicating sample locations, depths and basis for selection of grab sample locations.

TOTAL SOIL QUANTITY (cy)	NUMBER OF GRAB SAMPLES (from location(s) of greatest contamination)	NUMBER OF COMPOSITE SAMPLES
0 – 400	1	2
401-1,000	1	1 per 200 cy or portion thereof
> 1,000	1 plus 1 additional for every 2,000 cy (or portion thereof) over 1,000	5 plus 1 additional for every 1,000 cy (or portion thereof) over 1,000

CRRA reserves the right to require the applicant to demonstrate by statistical analysis that the required number of samples per SW-846 was collected. If additional samples are required thereunder, applicants must meet these requirements.

6. Soils containing concentrations of semi-volatile organics, polynuclear aromatics or volatile organics at total concentrations greater than 5,000 mg/kg (ppm) will not be accepted at the Hartford Landfill. TPH levels must not exceed 30,000 ppm, with 80% of the sample results no greater than 10,000 ppm.
7. CRRA will evaluate all applications on a case-by-case basis. CRRA reserves the right to request additional information, including additional chemical analyses of the candidate soil material, prior to accepting the material for disposal. CRRA also reserves the right to inspect the candidate soil to evaluate its physical characteristics, the presence of odors, or other potentially undesirable qualities.
8. CRRA reserves the right to conduct its own testing of any special waste soil and the right to reject loads that it deems inconsistent with the soil characterization submittal.
9. CRRA reserves the right to disapprove the delivery of any special waste soil.

SPECIAL WASTE SOIL - PROFILE FORM
 Hartford Landfill, Connecticut Resources Recovery Authority

Note: Provide additional information on numbered attachment pages, as necessary

APPLICANT INFORMATION:							
Applicant: Contact Name:	Address:	Phone No.:	Fax No.:				
Generator: Contact Name:	Address:	Phone No.:	EPA ID No. (if applicable)				
Billing Name: Contact Name:	Address:	Phone No.:	Fax No.:				
Location of Source of Soil:	Site Name:	Address:					
Hauler:	Address:	Phone No.:	EPA ID No. (if applicable)				
Party(ies) Responsible for Sampling/Characterizing Soil (add additional sheets, as necessary):							
Party: _____ Responsible for: _____ Address: _____							
Party: _____ Responsible for: _____ Address: _____							
SOIL INFORMATION:							
Description of soil and source of contamination:							
Has a Special Waste Authorization been issued by CTDEEP? <input type="checkbox"/> Yes <input type="checkbox"/> No							
If yes: Date of Authorization: _____ Does Authorization allow use of materials as daily cover? <input type="checkbox"/> Yes <input type="checkbox"/> No							
Attach authorization letter and complete copy of Special Waste Authorization Application, including analytical data or other information upon which it was based. Also provide drawing(s) indicating sample locations, depths, and rationale for sample location selection.							
If no: Has an authorization application been submitted to CTDEEP? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, date of submittal: _____ Attach complete copy of Special Waste Authorization Application, including data or other information upon which it was based. Also provide drawing(s) indicating sample locations, depths, and rationale for sample location selection.							
CHEMICAL AND PHYSICAL INFORMATION							
SOIL TYPE	SOURCE OF CONTAMINATION	ESTIMATED SOIL QUANTITY					
<input type="checkbox"/> Contaminated soil	<input type="checkbox"/> Tank removal	_____ tons					
<input type="checkbox"/> Contaminated dredge spoils	<input type="checkbox"/> Industrial processes	_____ cy					
<input type="checkbox"/> Other: _____	<input type="checkbox"/> Spill cleanup	<input type="checkbox"/> One-time disposal					
	<input type="checkbox"/> Water treatment	<input type="checkbox"/> Periodic disposal					
	<input type="checkbox"/> Sewage treatment	Period over which soil will be delivered:					
	<input type="checkbox"/> Voluntary remediation	_____					
	<input type="checkbox"/> Misc. urban fill (source unknown)	Estimated disposal rate (e.g., cy/day, tons/week):					
	<input type="checkbox"/> Other: _____	_____					
PHYSICAL STATE		MATRIX					
<input type="checkbox"/> Solid		<input type="checkbox"/> Homogeneous <input type="checkbox"/> Heterogeneous					
<input type="checkbox"/> Sludge (if yes, include paint filter test results)		_____ % Clay					
Odor? <input type="checkbox"/> Yes <input type="checkbox"/> No		_____ % Debris Describe: _____					
Describe appearance: _____		_____ % Stones/Rocks/Cobbles > 3 inches					
CHEMICAL CHARACTERIZATION: Indicate which analyses have been performed on the soil:							
<input type="checkbox"/> Paint Filter Test [EPA Method 9095]				<input type="checkbox"/> Volatile Organics: <input type="checkbox"/> EPA Method 8010			
<input type="checkbox"/> Ignitability <input type="checkbox"/> Corrosivity <input type="checkbox"/> Reactivity		<input type="checkbox"/> EPA Method 8015 <input type="checkbox"/> EPA Method 8020					
<input type="checkbox"/> Toxicity Characteristic Leaching Procedure (TCLP) [EPA Method 1311]				<input type="checkbox"/> EPA Method 8260 <input type="checkbox"/> Other: _____			
<input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> BNAs <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/> Select analytes		<input type="checkbox"/> Semi-Volatile Organics <input type="checkbox"/> EPA Method 8270					
<input type="checkbox"/> Synthetic Precipitation Leaching Procedure (SPLP) [EPA Method 1312]				<input type="checkbox"/> PCBs <input type="checkbox"/> EPA Method 8082 <input type="checkbox"/> Other: _____			
<input type="checkbox"/> Pesticides [EPA Method 8081] <input type="checkbox"/> Herbicides [EPA Method 8151]		<input type="checkbox"/> Oil & Grease (TPH): Method: _____					
<input type="checkbox"/> Metals [EPA Method 6010 and 7000 Series] <input type="checkbox"/> RCRA 8 Metals				<input type="checkbox"/> Other: _____			
<input type="checkbox"/> TAL Metals <input type="checkbox"/> PP Metals <input type="checkbox"/> Select Metals		<input type="checkbox"/> Other: _____					
		Characterization Method		Concentration of Contaminants			
Toxicity Characteristic Metals	GK ¹	TCLP (mg/L)	Total (mg/kg)	None or non-detect	Present Below TCLP Regulatory Limit		Present Above TCLP Regulatory Limit - Maximum Concentration
Arsenic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> < 5.0	mg/L	_____ mg/L
Barium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> < 100.0	mg/L	_____ mg/L
Cadmium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> < 1.0	mg/L	_____ mg/L
Chromium (total)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> < 5.0	mg/L	_____ mg/L
Lead	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> < 5.0	mg/L	_____ mg/L
Mercury	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> < 0.2	mg/L	_____ mg/L
Selenium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> < 1.0	mg/L	_____ mg/L
Silver	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> < 5.0	mg/L	_____ mg/L

¹ GK = generator knowledge, per 40 CFR 262.11(c)(2).

Toxicity Characteristic Organics	Characterization Method			Concentration of Contaminants			
	GK	TCLP (mg/L)	Total (mg/L)	None or non-detect	Present Below TCLP Regulatory Limit		Present Above TCLP Regulatory Limit - Maximum Concentration
Benzene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.5 mg/L	_____ mg/L
Carbon tetrachloride	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.5 mg/L	_____ mg/L
Chlordane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.03 mg/L	_____ mg/L
Chlorobenzene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 100.0 mg/L	_____ mg/L
Chloroform	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 6.0 mg/L	_____ mg/L
o - cresol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 200.0 mg/L	_____ mg/L
m - cresol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 200.0 mg/L	_____ mg/L
p - cresol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 200.0 mg/L	_____ mg/L
Cresol - mixed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 200.0 mg/L	_____ mg/L
2,4-D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 10.0 mg/L	_____ mg/L
1,4-Dichlorobenzene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 7.5 mg/L	_____ mg/L
1,2-Dichloroethane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.5 mg/L	_____ mg/L
1,1-Dichloroethylene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.7 mg/L	_____ mg/L
2,4-Dinitrotoluene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.13 mg/L	_____ mg/L
Endrin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.02 mg/L	_____ mg/L
Heptachlor (& its epoxide)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.008 mg/L	_____ mg/L
Hexachlorobenzene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.13 mg/L	_____ mg/L
Hexachlorobutadiene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.5 mg/L	_____ mg/L
Hexachloroethane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 3.0 mg/L	_____ mg/L
Lindane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.4 mg/L	_____ mg/L
Methoxychlor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 10.0 mg/L	_____ mg/L
Methyl ethyl ketone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 200.0 mg/L	_____ mg/L
Nitrobenzene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 2.0 mg/L	_____ mg/L
Pentachlorophenol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 100.0 mg/L	_____ mg/L
Pyridine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 5.0 mg/L	_____ mg/L
Tetrachloroethylene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.7 mg/L	_____ mg/L
Toxaphene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.5 mg/L	_____ mg/L
Trichlorethylene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.5 mg/L	_____ mg/L
2,4,5-Trichlorophenol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 400.0 mg/L	_____ mg/L
2,4,6-Trichlorophenol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 2.0 mg/L	_____ mg/L
2,4,5-TP (Silvex)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 1.0 mg/L	_____ mg/L
Vinyl chloride	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 0.2 mg/L	_____ mg/L

CONTAINED-IN POLICY

Does the soil contain a listed hazardous waste, but is considered non-hazardous under Connecticut's Contained-In Policy? Yes No
 If yes, indicate, code: F waste K waste P waste U Waste

GENERATOR'S CERTIFICATION

1. Is the soil represented by this profile sheet a Hazardous Waste as defined by USEPA or Connecticut regulation or has it been mixed with a Hazardous Waste?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2. Does the soil represented by this profile sheet contain regulated infectious material, radioactive material or Polychlorinated Biphenyls (PCBs) regulated under 40 CFR Part 761?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
3. Has all relevant information within the possession of the Generator and Applicant regarding known or suspected hazards pertaining to the soil been disclosed to CRRA?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
4. Is the analytical data attached hereto derived from collecting and testing representative samples in accordance with 40 CFR 261 and DEEP special waste characterization requirements (as defined in DEP-WEED-INST-200)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5. If the soil contains a listed hazardous waste, is the soil considered non-hazardous under Connecticut's RCRA "Contained-In" Policy (i.e., are the contaminant levels below Industrial/Commercial Direct Exposure Criteria in the RSRs (via mass analysis) and below either the TCLP levels defined at 40 CFR 261.24 or 100 times the GA Pollutant Mobility Criteria defined in the RSRs (via mass analysis or leachate analysis) or 100 times the Ground Water Protection Criteria defined in the RSRs (via TCLP or SPLP analysis)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
6. Does the soil contain free-draining liquids?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
7. Will any and all changes that occur in the character of the soil be identified by the Generator and Applicant and disclosed to CRRA prior to shipping the soil to CRRA?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

By signing below, the Applicant and Generator acknowledge a first-hand knowledge of the soil's characteristics, certify that all samples are representative of the source material, certify that they have read and understand CRRA's Special Waste Soil Acceptance Requirements, and certify the truth and accuracy of the information present above.

Applicant: _____
 (Authorized Signature)

 (Name, Title)

 Date

Generator: _____
 (Authorized Signature)

 (Name, Title)

 Date

File Path: C:\Users\jedoux\Desktop\Drawing1.dwg Layout: 08 5X11-L_DWG TO PDF Plotted: Wed, April 17, 2013 - 11:35 AM User: jedoux
 Plotter: DWG TO PDF-PC3 CTB File: FO 2008 MONO (HALF).CTB
 LAYER STATE:

CONSTRUCT CONC. ARMORING
 PRIOR TO INSTALLATION OF
 GROUT TOPPING

2" THICK NON-SHRINK
 GROUT TOPPING OVER
 EXIST. CONC. SWALE
 (4,000 PSI)

ALIGN

APPLY BONDING
 AGENT (ACRY-LOK
 OR APPROVED
 EQUAL)

MATCH
 EXIST.

1'-2"±

REMOVE EXIST. BASE MATERIAL
 AND CONC. SWALE, INSTALL NEW
 CRUSHED STONE BASE

NOTE:
 SEE 1/C-3.01 FOR ADDITIONAL INFORMATION

SCALE:	
HORIZ.: N.T.S.	
VERT.:	
DATUM:	
HORIZ.:	
VERT.:	
0	
GRAPHIC SCALE	



FUSS & O'NEILL

146 HARTFORD ROAD
 MANCHESTER, CONNECTICUT 06040
 860.646.2469
 www.fando.com

CONNECTICUT RESOURCES RECOVERY AUTHORITY

SWALE GROUT TOPPING DETAIL

PHASE II MSW AREA CLOSURE & PV SYSTEM PROJECT

HARTFORD

CONNECTICUT

PROJ. No.: 2010 0123.H20
 DATE: 04/17/13

SK-01