



MARION COUNTY INCINERATOR ASH RESIDUE USE SOLUTION

REQUEST FOR PROPOSALS

OCTOBER 1, 2015

ADDENDUM #2

The following information in this addendum, hereby become part of the Request for Proposal. It is essential that all prospective Proposers note the content of this Addendum.

Attachments: The following documents have been added to Section 6: List of Attachments.

ATTACHMENT H – Municipal Waste Combustion Ash, Soil and Leachate Characterization Study Final Report from 12 and 13 year Study

ATTACHMENT I - Final Solid Waste Management Plan - Solid Waste Management Plan - Refer to Chapter 6 Ash Management

ATTACHMENT J - 2014 Leachate Data Tables - Historic Sampling Data of Leachate

ATTACHMENT K - Ash Total Metals Data

ATTACHMENT L - Covanta Ash Sampling Data

ATTACHMENT M - Ash Monofill Construction Information

Question and Answers:

Q1: How does the beneficial use determination (BUD) process align with the RFP process?

A1: The Department of Environmental Quality (DEQ) can take upwards of a year, or more depending on the nature of the specific proposal, to issue final approvals for a BUD. It is expected that each proposer will have engaged DEQ prior to submitting a proposal and is able to provide anticipated timelines for the BUD as part of the proposal. County anticipates issuing a notice of intent to award prior to BUD with a contract being executed after the BUD is complete.

Q2: Has the County notified DEQ of its intentions?

A2: Yes the County has had informal discussions with representatives from DEQ and has provided DEQ with a copy of the Request For Proposals.

Q3: How long did it take Marion County to get a BUD on the alternative daily cover process?

A3: One year.

Q4: Are there any issues with dioxins?

A4: There may be concerns but the scope is unknown. Outside parties who are opposed to energy from waste programs have raised concerns in the past related to dioxins.

Q5: Is the County willing to share any analytical reports?

A5: The Environmental Protection Agency (EPA) funded a thirteen (13) year study. The most beneficial report is the final "Twelfth and Thirteen Year Report". This report is attached to this Addendum as Attachment H Municipal Waste Combustion Ash, Soil and Leachate Characterization Study No separate testing for dioxins has been performed on the ash by Marion County or Covanta.

Q6: Can the most recent leachate testing be made available.

A6: Yes, the 2014 Leachate Data Tables - Historic Sampling Data of Leachate is attached to this Addendum as Attachment J.

Q7: Is there a plan for the facility beyond removal of ash?

A7: The County wishes to discontinue monofilling and ultimately remove existing monofills. There are no plans to discontinue use of the facility and it will continue to be used as a solid waste transfer station and recycling center. The facility also serves as the Public Works Operations North District Office.

Q8: Will the closed monofill cells be opened?

A8: There is a possibility that ash monofill cells one, two, and three could be opened if the proposed beneficial use solution is determined to be cost effective and of benefit to the County to do so.

Q9: Does the estimated 1,000,000 tons of ash include all cells.

A9: Yes.

Q10: Is there an opportunity for another party to begin metal recovery on screened ash?

A10: This is potentially an option. Approval will be required from the Marion County Board of Commissioners Office on any change to the current program.

Q11: Has County researched other similar operations?

A11: This has been a long term goal of the County. The Public Works Department has performed some research and spoken with several outside firms over the years. To date most of the other beneficial use programs are using only bottom ash. Use of Combined ash (bottom and fly ash) is used for Alternate Daily Cover as several locations throughout the United States.

Q12: So, other programs use only the bottom ash and this program will consist of both bottom and fly ash. Is that correct?

A12: Yes. The ash from the Covanta Marion WTEF is combined ash which contains both bottom ash and fly ash.

Q13: Can the financial history of the County's ash program be made available?

A13: Yes. Please refer to A27 and A28 - Ash Monofill and Leachate Management Expense Tables

Q14: Is County paying a tipping fee for the alternative daily cover?

A14: Yes

Transportation Cost from the Waste To Energy to Coffin Butte is: \$10.85 / ton.

Transportation Cost from the Waste To Energy to North Marion County Disposal Facility is: \$6:35 / ton. Please note that the cost to transport ash to North Marion would only apply if all ash is diverted to North Marion and ADC ash is no longer transported to Coffin Butte. The tipping fee at Coffin Butte Landfill is \$18.00 / ton base fee + \$.94 DEQ fee. Upon approval of the ash as ADC, the \$0.94/ton DEQ fee will be eliminated. DEQ approval is anticipated in October 2015.

Q15: Is there a minimum and or maximum amount of ash that can be removed annually?

A15: That figure has not been developed. County will research this and provide a figure.

Q16: Are there any issues with accelerating the consumption schedule?

A16: This is a possibility depending on the specifics of the plan and economics of the solution.

Q17: Would the closed cells be opened at County expense?

A17: There would be a cost to the County as opening closed cells increases leachate production. This would need to be negotiated based on the specific plan provided.

Q18: Does the County foresee any potential delays in moving to cells 1-3 once consumption on cell 4 has been exhausted?

A18: At this time the County is not aware of any known causes for delay.

Q19: Can the County provide a diagram of the liner system?

A19: Yes, the Ash Monofill Construction Information is attached to this Addendum as Attachment M.

Q20: Will DEQ require material from cells 1-3 in order to approve a BUD?

A20: Unknown. There is a lot of analytical data available from many sources on municipal solid waste ash.

Q21: How far back does the analytical data for the County's ash go?

A21: The 13 year study began in 1988. Please refer to Attachment H Ash Characterization Study Final Report.

Q22: What is the County's motivation for wanting to reduce the leachate production?

A22: Cost - For every gallon of leachate generated, the County must pay for transportation and disposal. In FY 14/ 15 the County paid an average of \$0.1841 per gallon for transportation and disposal. In FY 14/15 - 3,168,660 gallons of leachate was disposed at a total cost of \$583,261 of which \$320,869 was for transportation cost, \$20,739 in Fuel Surcharge and \$241,653 in disposal fees.

Q23: What is the cost of leachate disposal by freight and tipping fee or equivalent?

A23: Refer to answer 22 above.

Q24: What are the current volumes of leachate being produced and disposed of?

A24: Approximately 3.5 million gallons of leachate is generated per year. However, this volume varies based on the amount of open landfill area and amount of precipitation received during the year. In general, the County budgets for the transportation and disposal of 3.5 to 4.5 million gallons per year.

Q25: Who is currently disposing of the leachate?

A25: Our current contract for transportation and disposal of leachate is with Waste Connections Inc.

Q26: Please provide all test results on the leachate as discussed in the Pre-Proposal Conference.

A26: Leachate data tables from the 2014 Annual Environmental Monitoring Report have been provided in Attachment J.

Q27: What are the line item operating costs associated with the ash management system on a monthly and/or annual basis?

A27: Please refer to the following table.

Summary of Ash Management Costs			
Description	FY 13/14	FY 14/15	Grand Total
Capital Outlay	\$ 9,891.65	\$ -	\$ 9,891.65
Equipment	\$ 224,751.75	\$ 264,809.00	\$ 489,560.75
Expense	\$1,671,801.70	\$1,197,066.95	\$2,868,868.65
Labor	\$ 132,866.13	\$ 113,300.85	\$ 246,166.98
Materials	\$ 94,762.23	\$ 65,463.84	\$ 160,226.07
Outside Services	\$ 9,905.31	\$ 1,106.73	\$ 11,012.04
Grand Total	\$1,910,012.50	\$1,641,747.37	\$3,785,726.14

Expense* - Includes the transportation and disposal costs, equipment maintenance and other operational expenses.

Q28: What are the line item operating costs associated with the leachate management system on a monthly and/or annual basis?

A28: Please Refer to the Following Table.

Summary of Leachate Management Costs			
Description	FY 13/14	FY 14/15	Grand Total
Equipment	\$ 342.00	\$ 1,038.00	\$ 1,380.00
Expense	\$ 944,626.95	\$ 583,814.22	\$1,528,441.17
Labor	\$ 2,146.41	\$ 4,529.66	\$ 6,676.07
Materials	\$ 38.99	\$ 26.13	\$ 65.12
Outside Services	\$ 39,021.43	\$ 12,830.25	\$ 51,851.68
Grand Total	\$ 986,175.78	\$ 602,238.26	\$1,588,414.04

Expense – Includes the transportation and disposal costs, equipment maintenance and other operating expenses.

Q29: What are the current transportation and tipping fees associated with the disposal of ash?

A29: Refer to A14.

Q30: What are the revenues and revenue sources of the monofill on a monthly and/or annual basis?

A30: The only revenue source from the monofill is the Metal Recovery Operation. Please Refer to the following Table.

Ash Monofill Revenue	
Fiscal Year	Total
FY 13/14	\$ 917,619.78
FY 14/15	\$ 445,559.23
Grand Total	\$1,363,179.01

Q31: Does the County own the CEC screen or do they lease it?

A31: The County owns all of the Metal Recovery Equipment - Screen Plant - Conveyors - Excavator - Dozer - Loader - Eddy Current and other support equipment. The County contracts for the Rental of a HSI Impact Crusher, twice per year at an approximate cost of \$65,000 to \$70,000 per year.

Q32: Does the County own the eddy current and other processing equipment used on site or do they lease such equipment?

A32: See Answer 31 Above.

Q33: Does the County have transportation equipment available for transporting ash from the incinerator site to the monofill if needed?

A33: NO

Q34: How much per ton in freight does the county pay to transport the ash from the WTE facility to the monofill location?

A34: Ash is currently being transported from the WTEF to the Coffin Butte Landfill for use as ADC. A very minor amount of Ash transported to the Monofill only in the event the WTEF metal recovery system is down for repairs or maintenance. Refer to A14.

Q35: Is there an opportunity to utilize the "Potential Area for Development" parcel (shown on Attachment G Site Map) at the monofill site for processing/production/staging operations?

A35: NO - The area designated "Potential Area for Development" is for County Use Only. As stated in the Scope of Work "No Stockpiling of Ash at the site shall be permitted by the Proposer."

Q36: What would the County estimate the current volume (tonnage) of processed ash is at the site?

A35: As stated in the RFP; "Approximately 55,000 tons of Screened Ash is currently stockpiled within the monofill."

Q36: Please provide the approximate 13 year EPA study referred to in the Pre-Proposal Conference.

A36: Document has been provided in Attachment H.