

**RESOLUTION REGARDING APPROVAL OF AGREEMENTS
FOR LANDFILL ENVIRONMENTAL MONITORING,
LABORATORY ANALYSIS AND REPORTING SERVICES**

RESOLVED: That the President of CRRA be authorized to enter into agreements for Environmental Monitoring, Laboratory Analysis and Reporting Services, substantially as presented at this meeting, as follows:

Vendor	Amount	Facility
Anchor Engineering Services, Inc.	\$ 259,998	Hartford Landfill
GZA GeoEnvironmental, Inc.	\$ 266,865	Shelton Landfill

Connecticut Resources Recovery Authority

Contract Summary for Contract entitled

Environmental Monitoring, Laboratory Analysis, and Reporting Services – Hartford Landfill

Presented to the CRRA Board on: May 27, 2010

Vendor/ Contractor(s): Anchor Engineering Services, Inc.

Effective date: July 1, 2010

Contract Type/Subject matter: Three Year Services Agreement

Facility (ies) Affected: Hartford Landfill

Original Contract: This is original contract

Term: July 1, 2010 through June 30, 2013

Contract Dollar Value: \$259,998

Amendment(s): Not applicable

Term Extensions: Not applicable

Scope of Services:

- To perform quarterly sampling and reporting associated with the following environmental media: groundwater, surface water, and leachate;
- To perform annual sampling and reporting associated with stormwater discharges;
- To perform quarterly monitoring and annual reporting of the South Meadows Flood Control Dike.

Other Pertinent Provisions: None

Connecticut Resources Recovery Authority

Contract Summary for Contract entitled

Environmental Monitoring, Laboratory Analysis, and Reporting Services – Shelton Landfill

Presented to the CRRA Board on: May 27, 2010

Vendor/ Contractor(s): GZA GeoEnvironmental, Inc.

Effective date: July 1, 2010

Contract Type/Subject matter: Three Year Services Agreement

Facility (ies) Affected: Shelton Landfill

Original Contract: This is original contract

Term: July 1, 2010 through June 30, 2013

Contract Dollar Value: \$266,865

Amendment(s): Not applicable

Term Extensions: Not applicable

Scope of Services:

- To perform quarterly sampling and reporting associated with the following environmental media: groundwater, surface water, and leachate;
- To perform additional monthly sampling of treated leachate;
- To perform annual sampling and reporting associated with stormwater discharges;
- To perform annual habitat assessment inspection and reporting.

Other Pertinent Provisions: None

Connecticut Resources Recovery Authority

Contract Summary for Contract entitled

Environmental Monitoring, Laboratory Analysis, and Reporting Services – Wallingford Landfill

Presented to the CRRA Board on: May 27, 2010

Vendor/ Contractor(s): Sound Environmental Solutions

Effective date: July 1, 2010

Contract Type/Subject matter: Three Year Services Agreement

Facility (ies) Affected: Wallingford Landfill and Former Barberino Property

Original Contract: This is original contract

Term: July 1, 2010 through June 30, 2013

Contract Dollar Value: \$120,570

Amendment(s): Not applicable

Term Extensions: Not applicable

Scope of Services:

- To perform semi-annual sampling and reporting associated with the following environmental media: groundwater, and surface water;
- To perform annual sampling and reporting associated with stormwater discharges.

Other Pertinent Provisions: None

Connecticut Resources Recovery Authority

Contract Summary for Contract entitled

Environmental Monitoring, Laboratory Analysis, and Reporting Services – Ellington Landfill

Presented to the CRRRA Board on: May 27, 2010

Vendor/ Contractor(s): Anchor Engineering Services, Inc.

Effective date: July 1, 2010

Contract Type/Subject matter: Three Year Services Agreement

Facility (ies) Affected: Ellington Landfill

Original Contract: This is original contract

Term: July 1, 2010 through June 30, 2013

Contract Dollar Value: \$69,204

Amendment(s): Not applicable

Term Extensions: Not applicable

Scope of Services:

- To perform quarterly groundwater sampling and reporting;
- To perform quarterly sampling and reporting associated with off-site drinking water wells;
- To perform semi-annual surface water sampling and reporting;
- To perform annual sampling and reporting associated with stormwater discharges.

Other Pertinent Provisions: None

**Connecticut Resources Recovery Authority
Bridgeport Project
Mid-Connecticut Project
Wallingford Project**

**Service Agreements for Conducting Environmental
Monitoring Activities at Four CRRA Landfills**

May 27 2010

Executive Summary

CRRA's Environmental Services Division has completed the review process for the selection of environmental engineering consultants to perform environmental monitoring activities at the four CRRA landfills (Ellington, Hartford, Shelton, and Wallingford). These environmental monitoring activities are required by various solid waste, groundwater and wastewater regulations and permits that apply to each landfill. CRRA will enter into agreements with each of the approved consultants for a period of three years commencing on July 1, 2010 and terminating on June 30, 2013. This resolution is to request Board approval for the award of the environmental monitoring contracts for the Hartford Landfill and Shelton Landfill. Because the annual consideration for the environmental monitoring contracts at the Ellington Landfill and the Wallingford Landfill is less than \$50,000 per year, award of these two contracts is not included in this resolution, but these two contracts are included in the Discussion and Financial Summary that follow for the Board's information.

Discussion

Request for Bids Process

On February 14, 2010, CRRA published a public notice requesting bids from qualified environmental engineering consulting firms to furnish all materials, labor, equipment, and incidentals associated with environmental monitoring, laboratory analysis, and reporting at four CRRA landfills. This Request for Bids (RFB) was published in the following seven (7) newspapers:

- Hartford Courant
- New Haven Register
- Connecticut Post
- Manchester Journal Inquirer
- Meriden Record-Journal
- LaVoz Hispania de Connecticut
- Northeast Minority News

In addition to the newspaper publications, the RFB was also posted on the websites of the State of Connecticut Department of Administrative Services, and the Environmental Professionals' Organization of Connecticut.

Each landfill was bid separately, and firms were invited to bid on any or all of the landfills. On February 17, 2010, CRRA posted all Contract Documents on the World Wide Web at <http://www.crra.org> under the "Business Opportunities" page for prospective bidders to review and download free of charge. Copies of the Contract Documents were also available at CRRA's headquarters for prospective bidders to pick-up for a fee of \$25.00 if prospective bidders so chose.

CRRA conducted one mandatory pre-bid conference plus one mandatory tour at each landfill at the times and dates specified in the public notice. On March 25, 2010, CRRA issued one set of addenda to answer questions posed by prospective bidders at the mandatory pre-bid conference, the site tours or submitted in writing to CRRA by the deadline specified in the RFB. There was one and only one addendum issued for each of the four landfills.

Scope of Services

The scope of services varies by landfill, but generally includes the sampling of environmental media (groundwater, surface water, stormwater, drinking water, and/or leachate), analysis of the samples by a State-certified environmental testing laboratory, and generation of quarterly and annual reports for submission to regulatory agencies (DEP, EPA, local Departments of Health). The following table offers an overall, though not necessarily all-inclusive, summary of the scope of work for each landfill:

Summary of Scope of Services for Each Environmental Monitoring Program				
Requirements	Ellington LF	Hartford LF	Shelton LF	Wallingford LF
# of Groundwater Wells to Sample Quarterly	3	25	37	0
# of Groundwater Wells to Sample Semi-Annually	9	0	0	35
# of Surface Water Samples to Collect Quarterly	0	13 ^a	12 ^a	0
# of Surface Water Samples to Collect Semi-Annually	6	0	0	10
# of Drinking Water Wells to Sample Quarterly/Annually	6/3	0	0	0

Summary of Scope of Services for Each Environmental Monitoring Program				
Requirements	Ellington LF	Hartford LF	Shelton LF	Wallingford LF
# of Stormwater Samples to Collect Annually	2	4	4	2
# of Additional Wells to Inspect Semi-Annually	23	28	24	10
Training Required Under 29 CFR 1910.120? ^b	No	No	Yes	Yes
Annual Dioxin/Furan Monitoring Required?	No	Yes	Yes	Yes
Supplemental Compliance Monitoring Required?	No	Yes	Yes	No
Sampled in Accordance with Low Flow Protocols?	No	Yes	Yes	Yes
Laboratory Analytical Services Included?	Yes	Yes	Yes	Yes
Dike Stability Monitoring and Reporting? ^c	No	Yes	No	No
Monthly Leachate Sampling and Reporting?	No	Yes	Yes	No
Notes:				
^a Surface water sampling at the Hartford LF and the Shelton LF requires use of a boat.				
^b Sampling personnel at Shelton LF and Wallingford LF must be trained in accordance with the OSHA standard for Hazardous Waste Operations and Emergency Response (29 CFR 1910.120) due to the presence of RCRA hazardous waste disposal cells at these two landfills.				
^c Dike stability monitoring entails quarterly surveying, measurement of pore pressures, and measurement of ground deflection at five locations.				

Bid Evaluation Process and Recommended Awards

To assist CRRA in its evaluation of bids, CRRA requested that each bidder assemble a separate, stand-alone bid for each landfill monitoring project on which it was bidding. CRRA developed standard forms and schedules for bidders to summarize proposed monitoring costs and payment rates. CRRA also requested narrative summaries of “Business Information” and “Personnel Background and Experience” on standard forms to assist CRRA in evaluating each bidder’s understanding of the Scope of Services, as well as the overall knowledge, experience, and ability of each bidder company, its staff, and any proposed subcontractors.

Bidders were also required to complete and submit a “Questionnaire Concerning Affirmative Action, Small Business Contractors, and Occupational Health and Safety.” Each bidder received a score on this Questionnaire, with points awarded to companies that qualified as small contractors and/or minority/woman/disable person-owned firms (M/W/DP Business Enterprises). Bidders were also awarded points for having Affirmative Action Plans, apprenticeship programs, no OSHA citations for serious or willful violations, no criminal convictions related to employee injuries or deaths, and no ethics violations.

Each bidder was required to complete, properly-execute and submit an “Affidavit Concerning Nondiscrimination” certifying that the bidder complies with the nondiscrimination agreements and warranties required under Connecticut General Statutes. Each bidder was also required to disclose the existence of certain criminal investigations, civil investigations and/or debarments from bidding by the State (or any other governmental authority) by completing, properly-executing and submitting a “Background Questionnaire.”

Bids were received and opened privately after the bid submission deadline. The proposed costs from every bid were then entered into spreadsheets to determine bidder rankings for each landfill based solely on proposed costs. The cost summary spreadsheet for each of the four landfill environmental monitoring programs is attached at the end of this summary.

As indicated in the attached cost summary spreadsheets, the following firms submitted the lowest bid for each landfill’s environmental monitoring program:

Landfill	Proposing Firm with Lowest Cost
Hartford Landfill	Anchor Engineering Services, Inc.
Shelton Landfill	GZA GeoEnvironmental, Inc.
Wallingford Landfill	Sound Environmental Solutions
Ellington Landfill	Anchor Engineering Services, Inc.

After the bids were evaluated based on cost, CRRA’s Environmental Services Division evaluated the details of the three lowest-cost bids for each landfill. These evaluations included contacting professional references, as provided by the bidders. CRRA then invited the following firms to interview for one or more environmental monitoring program (firms listed in alphabetical order):

1. Anchor Engineering Services, Inc.
2. GZA GeoEnvironmental, Inc.
3. Pennoni Associates, Inc.
4. Sound Environmental Solutions

A summary of the bid evaluations is as follows:

Hartford Landfill: A total of fourteen (14) bids were received before the submission deadline. An evaluation of these 14 firms based solely on proposed costs is attached at the end of this summary.

Anchor Engineering Services, Inc. (Anchor) submitted the lowest cost proposal. Following the detailed evaluation of the bids, CRRA invited Anchor to interview for the Hartford Landfill environmental monitoring project. CRRA also contacted three professional references provided by Anchor to verify the historical quality and performance of Anchor’s work for others. Based upon information conveyed in the bid documents, during the interviews, and by the professional references, CRRA Management believes Anchor to be qualified and responsive, and, therefore,

recommends that the Hartford Landfill project be awarded to Anchor. Anchor is a registered Small Business Enterprise with the State of Connecticut Department of Administrative Services.

Anchor has proposed the use of one subcontractor: Phoenix Environmental Laboratories, Inc. to analyze groundwater, surface water, leachate and stormwater samples.

Shelton Landfill: A total of twelve (12) bids were received before the submission deadline. An evaluation of these 12 firms based solely on proposed costs is attached at the end of this summary.

GZA GeoEnvironmental, Inc. (GZA), a firm that had previously conducted environmental monitoring at the Shelton Landfill during CRRA fiscal years 2004 through 2007, submitted the lowest cost proposal. Following the detailed evaluation of the bids, CRRA conducted a telephonic interview with GZA for the Shelton Landfill environmental monitoring project. CRRA also contacted three professional references provided by GZA to verify the recent quality and performance of GZA's work for others. Based upon information conveyed in the bid documents, during the interview, and by the professional references, CRRA Management believes GZA to be qualified and responsive, and, therefore, recommends that the Shelton Landfill project be awarded to GZA.

GZA has proposed the use of one subcontractor: Phoenix Environmental Laboratories, Inc. for analysis of all environmental samples (groundwater, surface water, leachate, and stormwater).

Wallingford Landfill: A total of eighteen (18) bids were received before the submission deadline. An evaluation of these 18 firms based solely on proposed costs is attached at the end of this summary.

Sound Environmental Solutions (SES) submitted the lowest cost proposal. Following the detailed evaluation of the bids, CRRA invited SES to interview for the Wallingford Landfill environmental monitoring project. CRRA also contacted three professional references provided by SES to verify the recent quality and performance of SES' work for others. Based upon information conveyed in the bid documents, during the interview, and by the professional references, CRRA Management believes SES to be qualified and responsive, and, therefore, recommends that the Wallingford Landfill project be awarded to SES. SES is a registered Small Business Enterprise with the State of Connecticut Department of Administrative Services.

SES has proposed the use of one subcontractor: TestAmerica, Inc. for analysis of all environmental samples (groundwater, surface water, and stormwater).

Ellington Landfill: A total of twelve (17) bids were received before the submission deadline. An evaluation of these 17 firms based solely on proposed costs is attached at the end of this summary.

Anchor Engineering Services, Inc. (Anchor) submitted the lowest cost proposal. Following the detailed evaluation of the bids, CRRA invited both Anchor and Pennoni Associates, Inc. (the second-lowest cost bidder) to interview for the Ellington Landfill environmental monitoring project. CRRA also contacted three professional references provided by each bidder to verify the quality and performance of each firm's work for others. Based upon information conveyed in the bid documents, during the interviews, and by the professional references, CRRA Management believes Anchor to be better-qualified and responsive, and, therefore, recommends that the Ellington Landfill project be awarded to Anchor. Anchor is a registered Small Business Enterprise with the State of Connecticut Department of Administrative Services.

Anchor has proposed the use of one subcontractor: Phoenix Environmental Laboratories, Inc. to analyze groundwater, surface water, leachate and stormwater samples.

Financial Summary

Sufficient funds have been included in each Landfill's Environmental Testing budget for fiscal year 2011 to cover the proposed monitoring costs. Sufficient funds will be included in subsequent fiscal year budgets for each facility to cover the proposed costs.

The following table summarizes the proposed costs for the FY'11-FY'13. For comparative purposes, the following table also presents the FY'08-FY'10 monitoring costs.

Summary of Environmental Monitoring Costs		
Facility	FY'11-FY'13	FY'08-FY'10
Hartford Landfill	\$ 259,998	\$ 285,840
Shelton Landfill	\$ 266,865	\$ 276,750
Wallingford Landfill	\$ 120,570	\$ 236,940
Ellington Landfill	\$ 69,204	\$ 70,755

**RFB FOR ENVIRONMENTAL MONITORING, LABORATORY ANALYSIS AND
REPORTING SERVICES FOR CRRA LANDFILLS
HARTFORD LANDFILL
BID PRICE ANALYSIS**

Bidder Name	Bid Price				Rank
	FY 10	FY 11	FY 12	Total	
Anchor Engineering Services	85,771.00	86,661.00	87,566.00	259,998.00	1
Diversified Technology Consultants	89,020.00	89,020.00	90,810.00	268,850.00	2
H&S Environmental, Inc.	91,350.00	91,350.00	91,350.00	274,050.00	3
CME Engineering	94,288.00	94,288.00	94,288.00	282,864.00	4
Soverign Consulting Inc.	94,650.00	94,650.00	94,650.00	283,950.00	5
GZA GeoEnvironmental, Inc.	94,809.00	94,809.00	94,809.00	284,427.00	6
Sound Environmental Solutions	94,945.00	94,945.00	94,945.00	284,835.00	7
Loureiro Engineering Associates, Inc.	103,777.00	103,777.00	103,777.00	311,331.00	8
Bradburne, Briller & Johnson, LLC	104,456.00	104,456.00	104,456.00	313,368.00	9
Pennoni Associates Inc.	105,548.00	107,388.00	109,274.00	322,210.00	10
HRP Associates	121,320.00	121,320.00	121,320.00	363,960.00	11
Gannett Fleming, Inc.	135,680.00	135,680.00	135,680.00	407,040.00	12
Corporate Environmental Advisory, Inc.	134,867.00	135,801.00	136,947.00	407,615.00	13
GEI Consultants, Inc.	220,237.00	220,237.00	220,237.00	660,711.00	14

**RFB FOR ENVIRONMENTAL MONITORING, LABORATORY ANALYSIS AND
REPORTING SERVICES FOR CRRA LANDFILLS
SHELTON LANDFILL
BID PRICE ANALYSIS**

Bidder Name	Bid Price				Rank
	FY 10	FY 11	FY 12	Total	
GZA GeoEnvironmental, Inc.	88,955.00	88,955.00	88,955.00	266,865.00	1
Diversified Technology Consultants	91,498.00	91,498.00	93,343.00	276,339.00	2
Soverign Consulting Inc.	92,740.00	92,740.00	92,740.00	278,220.00	3
Sound Environmental Solutions	95,410.00	95,410.00	95,410.00	286,230.00	4
Fuss & O'Neill	100,700.00	101,550.00	102,300.00	304,550.00	5
CCA LLC	102,026.00	102,026.00	102,026.00	306,078.00	6
HRP Associates	105,110.00	105,110.00	105,110.00	315,330.00	7
H&S Environmental, Inc.	108,520.00	108,520.00	108,520.00	325,560.00	8
Corporate Environmental Advisory, Inc.	108,439.00	109,622.00	110,072.00	328,133.00	9
Loureiro Engineering Associates, Inc.	114,338.00	114,338.00	114,338.00	343,014.00	10
Gannett Fleming, Inc.	120,229.00	120,229.00	120,229.00	360,687.00	11
Bradburne, Briller & Johnson, LLC	136,098.00	136,098.00	136,098.00	408,294.00	12

**RFB FOR ENVIRONMENTAL MONITORING, LABORATORY ANALYSIS AND
REPORTING SERVICES FOR CRRA LANDFILLS
WALLINGFORD LANDFILL**

BID PRICE ANALYSIS

Bidder Name	Bid Price				Rank
	FY 10	FY 11	FY 12	Total	
Sound Environmental Solutions	40,190.00	40,190.00	40,190.00	120,570.00	1
O'Reilly, Talbot & Okun	41,855.00	41,855.00	41,855.00	125,565.00	2
Northern Engineering	41,882.00	42,636.00	43,403.00	127,921.00	3
Diversified Technology Consultants	43,200.00	43,200.00	43,900.00	130,300.00	4
Anchor Engineering Services	43,767.00	44,053.00	44,323.00	132,143.00	5
GZA GeoEnvironmental, Inc.	44,075.00	44,075.00	44,075.00	132,225.00	6
Bradburne, Briller & Johnson, LLC	44,271.00	44,271.00	44,271.00	132,813.00	7
Advanced Environmental Interface, Inc.	45,560.00	45,560.00	45,560.00	136,680.00	8
CCA LLC	46,029.00	46,029.00	46,029.00	138,087.00	9
HRP Associates	52,180.00	52,180.00	52,180.00	156,540.00	10
H&S Environmental, Inc.	57,685.00	57,685.00	57,685.00	173,055.00	11
Loureiro Engineering Associates, Inc.	59,049.00	59,049.00	59,049.00	177,147.00	12
Gannett Fleming, Inc.	59,225.00	59,225.00	59,225.00	177,675.00	13
Atlas Environmental Company	58,416.50	59,432.83	60,469.49	178,318.82	14
Soverign Consulting Inc.	59,860.00	59,860.00	59,860.00	179,580.00	15
Analytical Consulting Technology, Inc.	60,276.50	61,482.03	62,711.67	184,470.20	16
Weston & Sampson	62,520.00	64,631.00	66,202.00	193,353.00	17
Corporate Environmental Advisory, Inc.	75,173.00	75,478.00	76,541.00	227,192.00	18

**RFB FOR ENVIRONMENTAL MONITORING, LABORATORY ANALYSIS AND
REPORTING SERVICES FOR CRRA LANDFILLS
ELLINGTON LANDFILL**

BID PRICE ANALYSIS

Bidder Name	Bid Price				Rank
	FY 10	FY 11	FY 12	Total	
Anchor Engineering Services	22,871.00	23,067.00	23,266.00	69,204.00	1
Pennoni Associates Inc.	23,523.00	23,880.00	24,246.00	71,649.00	2
O'Reilly, Talbot & Okun	25,960.00	25,960.00	25,960.00	77,880.00	3
Sound Environmental Solutions	26,010.00	26,010.00	26,010.00	78,030.00	4
Northern Engineering	29,466.00	29,996.00	30,536.00	89,998.00	5
Advanced Environmental Interface, Inc.	30,150.00	30,150.00	30,150.00	90,450.00	6
Soverign Consulting Inc.	30,930.00	30,930.00	30,930.00	92,790.00	7
Bradburne, Briller & Johnson, LLC	35,595.00	35,595.00	35,595.00	106,785.00	8
Diversified Technology Consultants	35,300.00	35,300.00	36,200.00	106,800.00	9
H&S Environmental, Inc.	38,550.00	38,550.00	38,550.00	115,650.00	10
Atlas Environmental Company	41,346.91	42,037.85	42,742.61	126,127.37	11
Loureiro Engineering Associates, Inc.	43,414.00	43,414.00	43,414.00	130,242.00	12
Corporate Environmental Advisory, Inc.	47,381.00	48,324.00	49,287.00	144,992.00	13
Analytical Consulting Technology, Inc.	48,626.91	49,599.45	50,591.44	148,817.80	14
Gannett Fleming, Inc.	50,540.00	50,540.00	50,540.00	151,620.00	15
Weston & Sampson	55,690.00	57,812.00	59,934.00	173,436.00	16
GEI Consultants, Inc.	115,652.00	115,652.00	115,652.00	346,956.00	17