By: Public Works Introduced: 04/12/10 Public Hearing: 04/26/10 Adopted: 04/26/10

CITY OF WASILLA ORDINANCE SERIAL NO. 10-12

AN ORDINANCE OF THE WASILLA CITY COUNCIL AMENDING THE FISCAL YEAR 2010 BUDGET BY APPROPRIATING \$50,000 IN DEPARTMENT OF ENERGY GRANT FUNDING FOR A GEOTHERMAL HEAT PUMP SYSTEM AT THE WASTEWATER TREATMENT PLANT.

Section 1. Classification. This is a non-code ordinance.

Section 2. Purpose. To amend the budget by appropriating \$50,000 in US

Department of Energy Grant funding for a Geothermal Heat Pump System at the

Wastewater Treatment Plant.

Section 3. Appropriation. The funds are appropriated to the following:

Geothermal Heat Pump 310-4359-435.45-27 50,000

Section 4. Source of Funds.

DOE EECBG	310-4300-331.31-43	50.000
	010-4000-001.01-40	50,0

Section 5. Effective date. This ordinance shall take effect upon adoption by

the Wasilla City Council.

ADOPTED by the Wasilla City Council on April 26, 2010.

VERNE E. RUPRIGHT, Mayor

ATTEST:

KRISTIE SMITHERS, MMC, City Clerk

[SEAL]

VOTE: Hall, Harris, Larson, and Woodruff in favor.

City of Wasilla Page 1 of 1 Ordinance Serial No. 10-12



CITY OF WASILLA LEGISLATION STAFF REPORT

ORDINANCE SERIAL No. 10-12: AN ORDINANCE OF THE WASILLA CITY COUNCIL AMENDING THE FISCAL YEAR 2010 BUDGET BY APPROPRIATING \$50,000 IN DEPARTMENT OF ENERGY GRANT FUNDING FOR A GEOTHERMAL HEAT PUMP SYSTEM AT THE WASTEWATER TREATMENT PLANT.

Agenda of: April 12, 2010 Originator: Public Works Director Date: March 31, 2010

Route to:	Department	Signature/Date				
X	Finance Director	A for thomas the = 3/31/2010				
X	Interim Deputy Administrator	Marauklash				
x	Public Works Director	3/3/10				
X	City Clerk	Anix's				
REVIEWED BY MAYOR VERNE E. RUPRIGHT:						
FISCAL IMPACT: Ves \$50,000 or no Funds Available yes no						
Account na Attachmen	ame/number: 320-4359-435.45-27/Geo hts: Engineering Study (4 p Grant Information (7 p	othermal Heat Pump DOE				

SUMMARY STATEMENT: The American Recovery and Reinvestment Act of 2009 has made funding available for Alaskan Communities for projects that can reduce the use of fossil fuels. The City has proposed a geothermal heat pump system for the wastewater treatment plant as a project that is feasible with the \$50,000 amount that is allocated for Wasilla. This project will extract heat from groundwater to supplement the treatment plant's natural gas heating system.

A separate Resolution will prepared for City Council approval to accept the grant, once the Department of Energy makes the grant offer available for the Mayor's signature.

STAFF RECOMMENDATION: Approve the adoption of Ordinance Serial Number 10-12 that appropriates \$50,000 in Department of Energy Grant Funding for Geothermal Heat Pump System at the Wastewater Treatment Plant.

CITY OF WASILLA WASTEWATER TREATMENT FACILITY GEOTHERMAL HEATING SYSTEM STUDY

WASILLA, ALASKA

ISSUED FOR REVIEW

JUNE 2009



CONSULTING ENGINEERS 137 E. ARCTIC PALMER, AK 99645 (907) 745-6988

GNE PROJECT #29025







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137 E. Arctic Avenue Palmer, Alaska 99645 (907) 745-6988 Fax (907) 745-0591 gne@mtaonline.net

TECHNICAL MEMO

TO:	Archie Giddings	DATE:	June 24, 2009
COMPANY:	City of Wasilla, Waste Water Treatment Facility	TM:	#GNETM-01
FROM:	Randy Downing	PRJ:	#29025
SUBJECT:	Geothermal Heating System ROM Cost Study		

Great Northern Engineering (GNE) was asked to prepare a Rough Order of Magnitude (ROM) construction cost study for a geothermal heating system for the City of Wasilla Wastewater Treatment Facility. The proposed geothermal system would be used in conjunction with the existing facility's primary heating system to alleviate process piping from freezing and reduce overall operating costs. GNE has determined that a 5 TON geothermal system may be possible in order to remain under the \$50,000 price cap established by the customer; however, a 5 TON geothermal system may not be adequate to eliminate the current freeze-up problems witnessed at the facility.

Certain assumptions have been made by GNE upon calculating the ROM:

- The geothermal heating system is to be constructed onsite at the existing City of Wasilla Wastewater Treatment Facility.
- Existing on-site equipment storage will be utilized.
- Existing foundation design is adequate for installing of new heating system.
- A productive aquifer is available for the geothermal heat sink on location.
- A ground water well system was used since an existing productive well is present onsite. Well production and well injection is estimated to be around 12 gpm. Geothermal loops can be constructed in lieu of using ground water but the cost would be greater than a well.
- The geothermal heat pump loop is to be shipped as an assembled package and commissioned on-site.
- Circulation glycol pumps and thermostatic controls are to be installed within the facility in a code compliant zone. The pumps and expansion tank can be wall hung just inside of the designated installation point.
- A single 60 MBH unit heater, (radiation heaters or duct coils are also an option but not added to the cost estimate) can be added to the facility to aid in the heating deficit.

A 5 TON Heat Pump (60 MBH output) accompanied with the current gas fired unit heaters (25 MBH output) will produce 85 MBH, a heating gain of 5 MBH. This will cover the heat losses through transmission in one 20' x 40' bay. It will not cover the additional infiltration load as the overhead doors are opened and closed. Mounting a larger gas fired unit heater in place of the current gas fired unit heaters, in the drive through bay and the storage area would be

GNE# 29025

City of Wasilla Geothermal Cost Study

a recommendable solution for preventing pipe freeze-up and improve the performance of the current heating system.

\$50K Geothermal System ROM Construction Cost...... \$47,000

* Total cost of construction was considered for management, engineering and contingency. No additional costs are included for site inspection and associated permitting.

Attachments:

1. \$50K Geothermal Heat System ROM Construction Cost Estimate

6/25/09 Page 2

WASILLA, ALASKA - WASTE WATER TREATMENT FACILITY, 5 TON GEOTHERMAL HEAT SYSTEM ROM CONSTRUCTION COST ESTIMATE



17-Jun-09 INSTER TOTAL ITEM & DESCRIPTIONS AND UNITS SUB EMAILE SECTION OTYA ECTION 100 **MODULE TO FACILITY TRENCH & PIPING** 100.100 TRENCHING AND BACKFILL 20 B.C.Y \$218 \$218 50 100.200 **B" HDPE CASING** \$1,379 50 L۴ \$15 \$1,364 100.300 1" STEEL PIPE 150 LF **S**5 \$3,092 \$3,098 100,400 DEMOLISH & REPAVE ROAD 35 S.Y. \$5 \$368 \$372 100 SUBTOTAL: \$25 \$5,043 \$5,067 200 GEOTHERMAL PACKAGED HEATING SYSTEM 100.100 **5 TON PACKAGED HEAT PUMP SYSTEM** EΑ \$3,290 \$1,925 \$5,215 1 100.200 4'W X4'L X6' H EQUIPMENT SHELTER 1 EΑ \$700 \$700 \$1,400 200 SUBTOTAL: \$6,615 \$3,990 \$2,625 300 **GLYCOL HEATING SYSTEM COMPONENTS** 300.100 VERTICAL MOUNTED UH (60MBH) 1 EA \$826 \$280 \$1,105 300.200 CIRCULATION PUMP (1/12 HP) 2 EA \$1,176 \$314 \$1,490 AUTOMATIC AIR VENT 300.300 2 ΕA \$26 \$76 \$53 1" STRAINER Y-TYPE \$32 300.400 1 EΑ \$50 \$82 300.500 EXPANSION TANK (2 GAL) 1 EA \$140 \$7 \$147 SYSTEM FILL (GLYCOL) 25 300.600 GAL \$389 \$39 \$427 3 - WAY CONTROL VALVE \$360 300.700 EA \$81 \$441 1 3/4" BALANCING VALVE 300,800 1 EΑ \$46 \$45 \$90 300,900 FLOW CHECK CONTROL 2 EA \$158 \$99 \$258 301.000 PRESSURE TEST 1 ΕA \$0 \$595 \$595 300 SUBTOTAL: \$3,152 \$1,562 \$4,714 **GEOTHERMAL WELL CONSTRUCTION** 400 400.100 WELL @ 200 FEET (\$40 PER FOOT) 2 EA \$0 \$16,000 \$16,000 1 HP WELL PUMP 400.200 1 EA \$658 \$686 \$1,344 400.300 1" STEEL PIPING 40 LF \$692 \$1,072 \$1,764 1" STEEL 90 DEGREE FITTING 400.400 10 EΑ \$174 \$799 \$973

400 SUBTOTAL

\$1,523

\$18,558

\$20,081

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	500.100	3/4" COPPER PIPING (SOLDER JOINTS)	40	LF	\$197	\$433	\$630
	500.200	1" COPPER PIPING (SOLDER JOINTS)	10	LF	\$71	\$123	\$194
	500.300	3/4" COPPER 90 DEGREE FITTING	4	EA	\$11	\$165	\$176
	500.400	1" COPPER 90 DEGREE FITTING	4	EA	\$28	\$199	\$227
	500.500	3/4" COPPER TEE	2	EA	\$11	\$132	\$143
· ·	500,600	1" COPPER TEE	4	EA	\$65	\$321	\$3B6
	500.700	3/4" COPPER UNION	2	EA	\$37	\$91	\$127
	500.800	1 1/2" COPPER FLANGE, SWEAT	6	EA	\$35	\$184	\$218
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. . U.S. Department of Energy - Energy Efficiency and Renewable Energy Energy Efficiency and Conservation Block Grants Program

About The Program

"The Block Grants are a major investment in energy solutions that will strengthen America's economy and create jobs at the local level," said Secretary Chu. "The funding will be used for the cheapest, cleanest and most reliable energy technologies we have - energy efficiency and conservation - which can be deployed immediately. The grants also empower local communities to make strategic investments to meet the nation's long term clean energy and climate goals."

Program Pupose

The Energy Efficiency and Conservation Block Grants (EECBG) Program, funded for the first time by the American Recovery and Reinvestment Act (Recovery Act) of 2009, represents a Presidential priority to deploy the cheapest, cleanest, and most reliable energy technologies we have - energy efficiency and conservation - across the country. The Program, authorized in Title V, Subtitle E of the Energy Independence and Security Act (EISA) and signed into law on December 19, 2007, is modeled after the Community Development Block Grant program administered by the Department of Housing and Urban Development (HUD). It is intended to assist U.S. cities, counties, states, territories, and Indian tribes to develop, promote, implement, and manage energy efficiency and conservation projects and programs designed to:

- Reduce fossil fuel emissions;
- Reduce the total energy use of the eligible entities;
- Improve energy efficiency in the transportation, building, and other appropriate sectors; and
- Create and retain jobs.

Through formula and competitive grants, the Program empowers local communities to make strategic investments to meet the nation's long-term goals for energy independence and leadership on climate change.

Click here to see Conservation Block Grant Monitoring Plan (PDF 635 KB). Download Adobe Reader.

Program Funding

Funding for the EECBG Program under the Recovery Act totals \$3.2 billion. Of this amount, approximately \$2.7 billion will be awarded through formula grants. In addition, approximately \$454 million will be allocated through competitive grants, which will be awarded through a separate, future Funding Opportunity Announcement (FOA). A request for information (RFI) has been released (September 14, 2009) for feedback from EECBG stakeholders on this planned FOA. The RFI closes on September 28, 2009. The remaining funds will be used to provide a suite of technical assistance tools to state, local, and tribal grantees.

Cities and Counties \$1,880,310,000 States



\$767,480,000 **Indian Tribes** \$54,836,200 **Competitive Grants** \$63,680,000 \$390,040,000 **DOE Technical Assistance** \$45,000,000

Governments ineligible for direct formula grants from DOE are still eligible for competitive funds from DOE or program funds from their State Energy Office. To find contact information for your State Energy Office, visit the National Association of State Energy Officials at <u>http://www.naseo.org</u>.

Use of Funds

Grants can be used for energy efficiency and conservation programs and projects community wide, as well as renewable energy installations on government buildings. Activities eligible for use of funds include:

- Development of an energy efficiency and conservation strategy;
- Building energy audits and retrofits, including weatherization;
- Financial incentive programs for energy efficiency such as energy savings performance contracting, on-bill financing, and revolving loan funds;
- Transportation programs to conserve energy;
- Building code development, implementation, and inspections;
- Installation of distributed energy technologies including combined heat and power and district heating and cooling systems;
- Material conservation programs including source reduction, recycling, and recycled content procurement programs;
- Reduction and capture of greenhouse gas emissions generated by landfills or similar wasterelated sources;
- Installation of energy efficient traffic signals and street lighting;
- Installation of renewable energy technologies on government buildings;
- Any other appropriate activity that meets the purposes of the program and is approved by DOE.

EECBG Home | EERE Home | U.S. Department of Energy Webmaster | Web Site Policies | Security & Privacy | USA.gov Content Last Updated: 10/16/2009

Allocations For Alaska

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AKCentral Council of the Tlingit & Haida Indian TribesTribe\$191,900AKSitka Tribe of AlaskaTribe\$159,200AKOrutsararmuit Native Village (aka Bethel)Tribe\$138,200AKNative Village of Barrow Inupiat Traditional GovernmentTribe\$129,300AKNative Village of KotzebueTribe\$115,000AKKetchikan Indian CorporationTribe\$105,700AKNome Eskimo CommunityTribe\$101,800AKKenaitze Indian TribeTribe\$99,800	AK	Doyon, Limited	Tribe	\$	310,900
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AKNative Village of KotzebueTribe\$115,000AKKetchikan Indian CorporationTribe\$105,700AKNome Eskimo CommunityTribe\$101,800AKKenaitze Indian TribeTribe\$99,800	AK	Native Village of Barrow Inupiat Traditional Government	Tribe	\$	129,300
AKKetchikan Indian CorporationTribe\$ 105,700AKNome Eskimo CommunityTribe\$ 101,800AKKenaitze Indian TribeTribe\$ 99,800	AK	Native Village of Kotzebue	Tribe	\$	115,000
AKNome Eskimo CommunityTribe\$ 101,800AKKenaitze Indian TribeTribe\$ 99,800	AK	Ketchikan Indian Corporation	Tribe	\$	105,700
AK Kenaitze Indian Tribe \$ 99,800	AK	Nome Eskimo Community	Tribe	\$	101,800
	AK	Kenaitze Indian Tribe	Tribe	\$	99,800