

**SUBJECT:** Award of bid number 22-145B to Western Construction & Equipment for the Manufacture of Sand, Chips and Fill in the contract amount not to exceed \$1,780,210 per year.

**AGENDA OF:** June 7, 2022

**ASSEMBLY ACTION:**

Postponed to 6-21-22: 6-7-21

Adopted without objection 6-21-22

**MANAGER RECOMMENDATION:** Present to the Assembly for consideration.

**APPROVED BY MICHAEL BROWN, BOROUGH MANAGER:**

Route To:	Department/Individual	Initials	Remarks
	Purchasing Officer		
	Public Works Director	MB	
	Finance Director	cf	
	Borough Attorney	MS	
	Borough Clerk	BoA for Jkm	

**ATTACHMENT (S) :** Fiscal Note: Yes ☒ No ☐  
 Analysis Sheet (1p)  
 Specifications/Scope (4pgs)

**SUMMARY STATEMENT:** On April 22, 2022, the Matanuska-Susitna Borough Purchasing Division issued a solicitation requesting bids from qualified contractors to produce sand and chipped rock traction material, as well as various types of materials for use in the Central Landfill.

The awarded contractor is responsible for supplying all equipment and labor to produce sand, chips and fill and stock pile at the Central Landfill. Contractor will blend MSB provided sodium chloride (salt) with 54,000 cubic yards sand. Deliver salted sand and chipped rock to RSA contractor yards. Remaining materials will

be stacked at the Central Landfill salted sand storage building. Contractor will produce all quantities of borrow material and stockpile for project located on the Central Landfill.

Services purchased will support the Public Works Department in all assembly districts.

In response to the advertisement, five bids were received. Award recommendation is being made to Western Construction & Equipment as the lowest responsive and responsible bidder.

The term length for this agreement is for three-years with two additional one year renewals (potentially five-year contract), subject to annual appropriation of funds by the Borough Assembly.

In accordance with MSB 3.08.170(B), Administration requests authority to modify the resulting contract completion date by 30 days for unforeseen circumstances.

The Public Works Department, Operations & Maintenance Division will be administering the contract.

**RECOMMENDATION OF ADMINISTRATION:** Award of **BID NUMBER 22-145B** to **WESTERN CONSTRUCTION & EQUIPMENT** for the annual contract amount not to exceed **ONE MILLION SEVEN HUNDRED EIGHTY THOUSAND TWO HUNDRED TEN DOLLARS AND 00/100 CENTS (\$1,780,210.00)** for the **MANUFACTURE OF SAND, CHIPS AND FILL.**

# MATANUSKA-SUSITNA BOROUGH FISCAL NOTE

Agenda Date: June 7, 2022

SUBJECT: Award of bid number 22-145B to contractor for the contract amount of \$1,780,210.00 to Manufacture Sand, Chip  
Fill.

ORIGINATOR: Purchasing

FISCAL ACTION (TO BE COMPLETED BY FINANCE)	FISCAL IMPACT <input checked="" type="radio"/> YES <input type="radio"/> NO
AMOUNT REQUESTED <u>1,780,210</u>	FUNDING SOURCE <u>Landfill Cap Proj</u>
FROM ACCOUNT # <u>420.000.000 4XX.XXX</u>	PROJECT # <u>25057</u>
TO ACCOUNT :	PROJECT #
VERIFIED BY: <u>[Signature]</u>	CERTIFIED BY:
DATE: <u>5/26/22</u>	DATE:

EXPENDITURES/REVENUES:

(Thousands of Dollars)

OPERATING	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027
Personnel Services						
Travel						
Contractual						
Supplies						
Equipment						
Land/Structures						
Grants, Claims						
Miscellaneous						
TOTAL OPERATING						

CAPITAL	<u>1,780.2</u>					
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REVENUE						
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UNDING:

(Thousands of Dollars)

General Fund						
State/Federal Funds						
Other	<u>1,780.2</u>					
TOTAL	<u>1,780.2</u>					

POSITIONS:

Full-Time						
Part-Time						
Temporary						

ANALYSIS: (Attach a separate page if necessary)

PREPARED BY: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 DEPARTMENT: \_\_\_\_\_ DATE: \_\_\_\_\_  
 APPROVED BY: Chesenne Hendel DATE: 5/26/2022



**DETAILED BID TABULATION: 22-145B**  
**Manufacture Sand Chips & Fill**

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Bid Schedule					BIDDERS									
					Western Construction & Equipment, LLC		Northern Gravel		Anchorage Sand & Gravel		Pruhs Construction		Engineers Estimate	
Item Number	Item Code	Pay Item Description	Pay Unit	Estimated Quantity	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
1		Mobilization and Demobilization	Lump Sum	All Required	\$ 50,000.00	\$ 50,000.00	\$ -	\$ -	\$ 20,000.00	\$ 20,000.00	\$ 100,000.00	\$ 100,000.00	\$ -	\$ -
2		Produce Sand per Material Specifications	Cubic Yard	54,000	\$ 7.00	\$ 378,000.00	\$ 11.00	\$ 594,000.00	\$ 13.30	\$ 718,200.00	\$ 13.00	\$ 702,000.00	\$ -	\$ -
3		Produce Chips per Material Specifications	Cubic Yard	27,000	\$ 13.00	\$ 351,000.00	\$ 22.00	\$ 594,000.00	\$ 17.42	\$ 470,340.00	\$ 30.00	\$ 810,000.00	\$ -	\$ -
4		Blend MSB provided salt with sand	Cubic Yard	5,400	\$ 10.00	\$ 54,000.00	\$ 3.00	\$ 16,200.00	\$ 6.00	\$ 32,400.00	\$ 6.00	\$ 32,400.00	\$ -	\$ -
5		Deliver salted sand/chips to RSA 27	Cubic Yard	5,500	\$ 14.00	\$ 77,000.00	\$ 7.50	\$ 41,250.00	\$ 10.90	\$ 59,950.00	\$ 11.00	\$ 60,500.00	\$ -	\$ -
6		Deliver salted sand/chips to RSA 28	Cubic Yard	7,000	\$ 14.00	\$ 98,000.00	\$ 7.50	\$ 52,500.00	\$ 10.90	\$ 76,300.00	\$ 11.00	\$ 77,000.00	\$ -	\$ -
7		Deliver salted sand/chips to RSA 20	Cubic Yard	2,500	\$ 25.00	\$ 62,500.00	\$ 15.00	\$ 37,500.00	\$ 17.80	\$ 44,500.00	\$ 18.00	\$ 45,000.00	\$ -	\$ -
8		Deliver salted sand/chips to RSA 21	Cubic Yard	8,000	\$ 16.00	\$ 128,000.00	\$ 9.37	\$ 74,960.00	\$ 13.35	\$ 106,800.00	\$ 12.50	\$ 100,000.00	\$ -	\$ -
9		Deliver salted sand/chips to RSA 9	Cubic Yard	8,500	\$ 9.00	\$ 76,500.00	\$ 5.62	\$ 47,770.00	\$ 8.45	\$ 71,825.00	\$ 8.00	\$ 68,000.00	\$ -	\$ -
10		Deliver salted sand/chips to RSA 14	Cubic Yard	7,000	\$ 9.00	\$ 63,000.00	\$ 5.62	\$ 39,340.00	\$ 8.45	\$ 59,150.00	\$ 8.00	\$ 56,000.00	\$ -	\$ -
11		Deliver salted sand/chips to RSA 17	Cubic Yard	13,000	\$ 15.00	\$ 195,000.00	\$ 9.37	\$ 121,810.00	\$ 11.50	\$ 149,500.00	\$ 11.00	\$ 143,000.00	\$ -	\$ -
12		Deliver salted sand/chips to RSA 29	Cubic Yard	400	\$ 30.00	\$ 12,000.00	\$ 22.50	\$ 9,000.00	\$ 31.55	\$ 12,620.00	\$ 32.00	\$ 12,800.00	\$ -	\$ -
13		Deliver salted sand/chips to RSA 16	Cubic Yard	11,000	\$ 0.01	\$ 110.00	\$ 5.62	\$ 61,820.00	\$ 9.75	\$ 107,250.00	\$ 9.00	\$ 99,000.00	\$ -	\$ -
14		Deliver salted sand/chips to RSA 19	Cubic Yard	1,200	\$ 6.00	\$ 7,200.00	\$ 5.62	\$ 6,744.00	\$ 9.25	\$ 11,100.00	\$ 9.00	\$ 10,800.00	\$ -	\$ -
15		Deliver salted sand/chips to RSA 25	Cubic Yard	1,400	\$ 8.00	\$ 11,200.00	\$ 5.62	\$ 7,868.00	\$ 9.75	\$ 13,650.00	\$ 10.00	\$ 14,000.00	\$ -	\$ -
16		Deliver salted sand/chips to RSA 26	Cubic Yard	11,000	\$ 3.00	\$ 33,000.00	\$ 5.62	\$ 61,820.00	\$ 9.25	\$ 101,750.00	\$ 9.00	\$ 99,000.00	\$ -	\$ -
17		Deliver salted sand/chips to RSA 31	Cubic Yard	6,000	\$ 7.00	\$ 42,000.00	\$ 7.50	\$ 45,000.00	\$ 9.75	\$ 58,500.00	\$ 10.00	\$ 60,000.00	\$ -	\$ -
18		Deliver salted sand/chips to RSA 69	Cubic Yard	2,000	\$ 9.00	\$ 18,000.00	\$ 7.50	\$ 15,000.00	\$ 13.35	\$ 26,700.00	\$ 13.00	\$ 26,000.00	\$ -	\$ -
19		Type A Borrow Material	Cubic Yard	500	\$ 25.00	\$ 12,500.00	\$ 15.00	\$ 7,500.00	\$ 13.60	\$ 6,800.00	\$ 15.00	\$ 7,500.00	\$ -	\$ -
20		Type C Barrow Material	Cubic Yard	18,600	\$ 2.00	\$ 37,200.00	\$ 10.00	\$ 186,000.00	\$ 5.25	\$ 97,650.00	\$ 4.00	\$ 74,400.00	\$ -	\$ -
21		Type IIA Borrow Material	Cubic Yard	14,000	\$ 4.00	\$ 56,000.00	\$ 10.00	\$ 140,000.00	\$ 4.20	\$ 58,800.00	\$ 13.00	\$ 182,000.00	\$ -	\$ -
22			Cubic Yard	4,500	\$ 4.00	\$ 18,000.00	\$ 10.00	\$ 45,000.00	\$ 5.25	\$ 23,625.00	\$ 14.00	\$ 63,000.00	\$ -	\$ -
<b>TOTAL AMOUNT BID</b>					<b>\$ 1,780,210.00</b>		<b>\$ 2,205,082.00</b>		<b>\$ 2,327,410.00</b>		<b>\$ 2,842,400.00</b>		<b>\$ -</b>	

  

Bid Schedule					BIDDERS									
					Granite Construction Company									
Item Number	Item Code	Pay Item Description	Pay Unit	Estimated Quantity	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
1		Mobilization and Demobilization	Lump Sum	All Required	\$ 150,000.00	\$ 150,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2		Produce Sand per Material Specifications	Cubic Yard	54,000	\$ 15.00	\$ 810,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3		Produce Chips per Material Specifications	Cubic Yard	27,000	\$ 32.50	\$ 877,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4		Blend MSB provided salt with sand	Cubic Yard	5,400	\$ 30.00	\$ 162,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5		Deliver salted sand/chips to RSA 27	Cubic Yard	5,500	\$ 9.75	\$ 53,625.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6		Deliver salted sand/chips to RSA 28	Cubic Yard	7,000	\$ 9.75	\$ 68,250.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7		Deliver salted sand/chips to RSA 20	Cubic Yard	2,500	\$ 17.50	\$ 43,750.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8		Deliver salted sand/chips to RSA 21	Cubic Yard	8,000	\$ 12.65	\$ 101,200.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9		Deliver salted sand/chips to RSA 9	Cubic Yard	8,500	\$ 7.50	\$ 63,750.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10		Deliver salted sand/chips to RSA 14	Cubic Yard	7,000	\$ 7.50	\$ 52,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11		Deliver salted sand/chips to RSA 17	Cubic Yard	13,000	\$ 10.70	\$ 139,100.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12		Deliver salted sand/chips to RSA 29	Cubic Yard	400	\$ 32.00	\$ 12,800.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13		Deliver salted sand/chips to RSA 16	Cubic Yard	11,000	\$ 8.35	\$ 91,850.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14		Deliver salted sand/chips to RSA 19	Cubic Yard	1,200	\$ 8.00	\$ 9,600.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15		Deliver salted sand/chips to RSA 25	Cubic Yard	1,400	\$ 8.35	\$ 11,690.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16		Deliver salted sand/chips to RSA 26	Cubic Yard	11,000	\$ 8.00	\$ 88,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17		Deliver salted sand/chips to RSA 31	Cubic Yard	6,000	\$ 8.35	\$ 50,100.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
18		Deliver salted sand/chips to RSA 69	Cubic Yard	2,000	\$ 10.40	\$ 20,800.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19		Type A Borrow Material	Cubic Yard	500	\$ 13.00	\$ 6,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
20		Type C Barrow Material	Cubic Yard	18,600	\$ 5.30	\$ 98,580.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
21		Type IIA Borrow Material	Cubic Yard	14,000	\$ 15.50	\$ 217,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
22			Cubic Yard	4,500	\$ 15.00	\$ 67,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL AMOUNT BID</b>					<b>\$ 3,196,095.00</b>		<b>\$ -</b>		<b>\$ -</b>		<b>\$ -</b>		<b>\$ -</b>	



**BID 22-145B**  
**MANUFACTURE SAND CHIPS & FILL**  
**SPECIFICATIONS/SCOPE OF WORK**

**General**

The Matanuska-Susitna Borough (MSB) is looking for a qualified contractor to produce sand and chipped rock traction material, as well as various types of material as specified in these Specifications/Scope of Work. Material to be processed shall come out of MSB owned land at the Central Landfill, located at 1201 N. 49<sup>th</sup> State Street, Palmer, AK.

The awarded contract shall be for 3 years with 2 optional one-year extensions.

The estimated 3 year quantity is 80,000 cubic yards of chips, 180,000 cubic yards of salted sand and 37,100 cubic yards of fill. Annual totals may vary.

Quantity of product to be produced shall be 27,000 cubic yards of chips and 59,400 cubic yards of salted sand for the first contract year.

All work must be performed as specified by the Bid Document, attachments and addenda. Refer to Gravel Extraction permit, Attachment #3, for any other conditions that need to be met.

**Scope of Work:**

Supply all equipment and labor to produce sand chips and fill per the Material Specification and stock pile at the Central Landfill.

Topsoil must be removed and stockpiled for future use by the Central Landfill.

Blend 5,400 cubic yards of MSB provided sodium chloride salt with 54,000 cubic yards sand, a 10:1 sand to salt ratio.

Deliver salted sand and chipped rock to RSA contractor yards in accordance with the delivery schedule below. Stack remaining material at Central Landfill salted sand storage building.

Produce all quantities of borrow material and stockpile for road project located on the Central Landfill.

Produce all materials in accordance to the attached drawing and sloping requirements. See Attachment #3.

First Year Chips and Salted sand delivery location and quantity is depicted below. Future year delivery locations and quantities may be adjusted to meet MSB needs and may be added by change order:

<b>RSA Location #</b>	<b>Address</b>	<b>Chips Cubic Yards</b>	<b>Sand blended with salt Cubic Yards</b>
27	3750 N Meadow Lakes Lp., Wasilla	1500	4000
28	3750 N Meadows Lakes Lp., Wasilla	1000	6000
20	Willow Transfer Station, 15469 Willow	500	2000
21	14868 W Big Lake Lodge Rd., Big Lake	3000	5000
9	255 W Leota St., Wasilla	2500	6000
14	255 W Leota St., Wasilla	2000	5000
17	7063 S. Turnstone St., Wasilla	3000	10000
29	35269 S Hopper Dr., Talkeetna	400	0
16	RSA 16	4000	7000
19	Lakeview	600	600
23	RSA 23	600	800
25	Lakeview	4000	7000
26	RSA 26	2000	4000
31	RSA 31	1000	1000
69	Port MacKenzie Gravel Pit	0	500
<b>TOTALS:</b>		<b>26100</b>	<b>58900</b>

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Borrow Material stockpiled at CLF:

TYPE	Cubic Yards
A	18,600
C	14,000
IIA	4,500
<b>TOTAL</b>	<b>37,100</b>

Crushing and screening operations shall be done at Site 1. Stockpiling of sand and chips shall be at site 2 and 3, see Attachment #1.

Contractor shall be responsible for the excavation and movement of the material for processing. See Attachment #1 for locations.

Reject material from the screening plant shall be loaded by the contractor into a contractor operated truck and shall be dumped at the reject pile location, see Attachment #1.

Other materials produced through this process may be sold by the contractor providing a negotiated royalty payment is made to the Solid Waste Division.

Contractor shall comply with all Federal, State and local regulations including but not limited to AKOSH and OSHA safety regulations, ADEC and EPA environmental regulations and the Central Landfill Operating permit.

Working hours at Central Landfill shall be Monday through Friday, between the hours of 8:00 AM until 5:00 PM. No heavy equipment may be operated after 5:00 PM, nor on the weekends. Light vehicle operations, generator startup and cool down, maintenance on crusher and screen plant and fueling may begin at 7:00 AM and must be complete by 6:00 PM.

Continuous production of sand and chips shall be done during working hours until required quantities are achieved.

Monthly cross sections shall be done by MSB for payment. Payment shall be by the cubic yard.

Quality control material testing shall be done by the contractor. Quality assurance shall be done by the MSB.

All production, stockpiling and delivery of first year salted sand and chips shall be completed no later than October 30, 2022. Production and stockpiling may continue until environmental factors require shutdown.

### Material Specification

#### 1. Road Sand:

- Winter road sand shall be produced by crushing or processing stones or gravel.
- It shall be free from clay balls, muck, frozen material, roots, sticks, deleterious material and organic matter.
- It shall comply with the following gradation as determined by WAQTC FOP for AASHTO T 27/T 11.

Non-washed Sand Gradation Specifications  
(washing is not required)

Sieve designation	Percent passing by weight
1/4"	98 - 100
#4	95 - 100
#200	0 - 5

#### 2. Road Chips:

- Road chips shall contain no clay balls, frozen material, roots, sticks, sod or other deleterious material.
- At least 75% by weight of the particles retained on the No. 4 sieve shall have a minimum of two fractured faces.
- Road chip specifications shall meet the following criteria:

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Sieve Designation	Percent passing by weight
1/2"	100
3/8"	90 - 100
#4	10 - 30
#8	0 - 8
#200	0 - 1

3. Type A

- Type A aggregate containing no muck, frozen material, roots, sod or other deleterious matter and with a plasticity index of not greater than 6 as tested by ATM 204 and ATM 205.
- At least 20-60% passing by weight Sieve No. 4 and 0-6%, determined on the minus 3-inch portion of the sample Sieve 200.
- Type A specifications shall meet the following criteria:

Sieve Designation	Percent passing by weight
#4	20 - 60
#200	0 - 6

4. Type C

- Earth, sand, gravel, rock or combination thereof containing no muck, peat, frozen material, root, sod, or other deleterious matter and is compactable under the provisions of Subsections 203-3.04 and 203-3.05 of the SSHC.
- Type C specifications shall meet the following criteria:

Sieve Designation	Percent passing by weight
1 1/2"	100
1"	70 - 100
3/4"	50 - 80
3/8"	35 - 65
#8	20 - 50
#30	10 - 33
#50	6 - 30
#200	0 - 6

5. Type IIA

- Material shall contain no lumps, frozen material, organic matter, or other deleterious matter and shall be durable and sound.
- Type IIA specifications shall meet the following criteria:

Sieve Designation	Percent passing by weight
3"	100
3/4"	50 - 100
#4	25 - 60
#10	15 - 50
#40	4 - 30
#200	2 - 6

## **Materials Testing**

The Contractor shall perform an initial gradation and fracture tests at the beginning of the production run, followed by one test for each 2,000 tons (or fraction thereof) of materials being produced. All samples taken for gradation and fracture testing must be taken from the current batch of materials being produced. The gradations shall be determined using WAQTC FOP T 27/T 11. The fractures shall be determined using WAQTC FOP for AASHTO TP 61. Test results shall be faxed to the Matanuska-Susitna Borough, Operations and Maintenance Division Office at (907) 861-7769 within 24 hours of completion. The first sample shall be split in half. The Contractor shall test half and the other half shall be delivered to the MSB Operations and Maintenance Division yard (1420 South Industrial Way, Palmer AK) for conformance by the MSB Testing Contractor.

The MSB reserves the right to take a random sample out of the stockpiles anytime during the production for conformance testing. Production shall stop if the material is out of specification on any two consecutive tests or if the results are different from the MSB test results and the MSB test results are out of specification.

If there is a discrepancy between the Contractor's test results and the MSB test results, production shall not resume until an agreement on which test result is valid has been reached. If the average of all the tests up to that point shows that the pile in its entirety is with specification, the MSB shall accept the product. If the average of all the tests up to that point show that the product is out of specification, the entire amount shall be deemed contaminated and delivery shall be refused. If the Contractor can remedy whatever problems he is having and verifies with a new gradation test, that he is now in specification, production may begin again. If the Contractor refuses or is unable to get production into specification, the MSB may cancel said contract.

If more than 20% of the total number of tests is out of specification, the contract may be terminated.

Movement to storage location shall not commence before all production test results have been submitted to the MSB Operations and Maintenance Division.

## **Measurement**

Measurement shall be by the cubic yard.