

K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants

1135 Legion Drive, Elm Grove, WI 53122 (414) 821 - 1171 FAX (414) 821 - 1174

May 10, 1994

Ms. Margaret Graefe
Wisconsin Department of Natural Resources
4041 N. Richards Street
P.O. Box 12436
Milwaukee, WI 53212

Project # 4025

Reference: Monthly Progress Report
Sanitary Landfill and Transfer, Delafield, WI
(April 1 through 30, 1994)

Dear Ms. Graefe:

The purpose of this letter is to provide a progress report for services provided from April 1 through 30, 1994. During this time period, we have addressed several issues, more specifically described as follows:

Project Management

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Project Coordination	100	\$ 80.00
2. Coordination for Blower	100	\$ 330.00
3. Well Owner's Co-ordination	100	\$ 25.00
4. Field Work Preparation	100	\$ 150.00

Site Visit

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Gas & Leachate Monitoring	100	\$ 300.00
2. GW, Gas & Leachate Monitoring	100	\$ 400.00

Report Preparation

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Monthly Progress Report	100	\$ 100.00
2. Monthly Status Report	100	\$ 200.00
3. Letter Preparation	100	\$ 120.00

Ms. Margaret Graefe
Page 2

Subcontractors' Invoices

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Vydrzal Services, Inc. Plowing & salting	100	\$ 165.00
2. Cellular One	100	\$ 52.94
3. Wisconsin Testing Laboratories	100	\$ 245.30

Equipment Usage

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Gas Meter	100	\$ 50.00
2. pH & Conductivity Meter	----	\$ 10.84

Miscellaneous

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Mileage	----	\$ 30.42
2. Fax, postage, & Clerical	----	\$ 13.77
Amount Due		\$ 2,273.27

Please call us, if you have any questions regarding this submittal.

Sincerely,

K. SINGH & ASSOCIATES, INC.

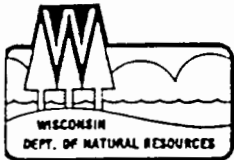
Pratap N. Singh

Pratap N. Singh, Ph.D., P.E.
Project Manager

Enc:

1. Payment Application and Certificate
2. Payment Breakdown (Invoice No. 4025-04-94 dated May 9, 1994)

cc: Ms. Marie Stewart / WDNR, Madison



PAYMENT APPLICATION AND CERTIFICATE

Emergency and Remedial Response Section

APPLICATION NO. 03
PERIOD FROM 04/01 TO 04/30 1994
PAGE 1 OF 2

Project Sanitary Transfer and Landfill - Operation and Maintenance
Contract No. SW 472
Contractor K. Singh & Associates, Inc.

- 1. Original Contract Sum \$ 397,103.00
- 2. Contract Directives Approved in Previous Applications:
Additions \$ _____ Deductions \$ _____ Not Applicable
- 3. Contract Directives Approved This Period (List Contract Modification No's. _____)
Additions \$ _____ Deductions \$ _____ Not Applicable
- 4. Net Change by Contract Directives (Sum of Lines 2 & 3) \$ N/A
- 5. Revised Contract Amount (Sum of Lines 1 & 4) \$ 397,103.00

- 6. Total Value of Bid Items Completed To Date
(Attached Payment Breakdown) \$ 9,564.20
- 7. Materials on Hand (Listing Attached) \$ -
- 8. Subtotal (Sum of Lines 6 & 7) \$ 9,564.20
- 9. Percent Project Complete (Line 8 ÷ 5 x 100) 2.408 %
- 10. Line 8 From Previous Payment Application \$ 7,290.93
- 11. Current Month, Earned Amount (line 8 minus line 10) \$ 2,273.27
- 12. Amount Retained This Application (See Specification) \$ -
- 13. Previous Amount of Retainage
(Line 15 of Previous Application) \$ -
- 14. Approved Retainage Reduction This Application \$ -
- 15. Total Amount Retained to Date
(Line 17 plus line 13 minus line 14) \$ -
- 16. Current Payment Due (Line 11 minus line 12 plus line 14) \$ 2,273.27

CONTRACTOR

The undersigned Contractor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by him for work for which previous Certificates for Payments were issued and payments received from Department, and that the current payment shown herein is now due.

K. Singh Associates, Inc. 1135 Legion Drive, Elm Grove WI 53122
CONTRACTOR ADDRESS

Preet N. Singh Vice-President 5/10/94
NAME TITLE DATE

DEPARTMENT

OVERSIGHT MANAGEMENT

I hereby recommend payment to the Contractor for the above estimate of work executed during the pay period shown.

Margaret M. Harper 5/12/94
PROJECT MANAGER DATE

APPROVED/DISAPPROVED _____
Chief, DATE
Emergency and Remedial Response Section

APPROVED/DISAPPROVED _____
ACTING FOR AGENCY DATE

ACKNOWLEDGEMENT

I received payment in the amount noted on this payment application.

CONTRACTOR ADDRESS

NAME TITLE DATE

K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants

1135 Legion Drive, Elm Grove, WI 53122 (414) 821-1171 FAX (414) 821-1174

Name	WDNR - Southeastern District	Date	May 09, 1994
Street	Richards Street Annex-4041 North Richards Street	Project #	4025
City / State / ZIP	Milwaukee WI 53212	Invoice No.	4025-4-94
Attention	Ms. Margaret Graefe		

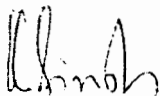
DESCRIPTION : Engineering Services
JOB : Delafield Landfill
AUTHORIZATION : Per your authorization of February 11, 1994
PERIOD COVERED : April 1-30, 1994

Date	Details	Designation	Hour/ Qty./ Mins.	Cost/Hr. Cost/Meal Cost/Min.	Total
Project Management					
04/13/94	Project coordination	Principal Engineer (PS)	1	\$80.00	\$80.00
04/20/94	Letter preparation	Principal Engineer (PS)	1.5	\$80.00	\$120.00
04/25/94	Coordination with contractor for blower installation & DNR proposal	Project Scientist (RS)	4	\$50.00	\$200.00
04/25/94	Blower & sampling planning	Principal Engineer (PS)	1	\$80.00	\$80.00
04/27/94	Coordination with owners to collect water from their wells	Project Scientist (RS)	.5	\$50.00	\$25.00
04/28/94	Field work preparation	Project Scientist (RS)	3	\$50.00	\$150.00
		<u>Subtotal for Project Management</u>			<u>\$655.00</u>
Report Preparation					
04/07/94	Monthly progress report	Project Scientist (RS)	1	\$50.00	\$50.00
04/11/94	Report review	Senior Project Engineer (DS)	1	\$50.00	\$50.00
04/12/94	Monthly status report	Project Scientist (RS)	4	\$50.00	\$200.00
		<u>Subtotal for Report Preparation</u>			<u>\$300.00</u>
Subcontractor Coordination					
04/21/94	Coordination for blower purchase & installation	Project Scientist (RS)	1	\$50.00	\$50.00
		<u>Subtotal for Subcontractor Coordination</u>			<u>\$50.00</u>
Site Visit					
04/09/94	Leachate & gas monitoring	Project Scientist (RS)	1.5	\$50.00	\$75.00
04/14/94	Gas & leachate monitoring	Project Scientist (RS)	2	\$50.00	\$100.00
04/22/94	Leachate & gas monitoring	Project Scientist (RS)	2.5	\$50.00	\$125.00
04/28/94	Sampling, leachate & gas monitoring	Project Scientist (RS)	8	\$50.00	\$400.00
		<u>Subtotal for Site Visit</u>			<u>\$700.00</u>
Clerical					
04/13/94	Miscellaneous clerical	Receptionist (JL)	.25	\$25.00	\$6.25
		<u>Subtotal for Clerical</u>			<u>\$6.25</u>

PAYMENT DUE UPON RECEIPT

Date	Details	Designation	Hour/ Qty./ Mins.	Cost/Hr. Cost/Meal Cost/Min.	Total
Subcontractor's Invoices					
03/30/94	Wisconsin Testing Laboratories #94142	<i>for clay testing</i>	1.1	\$223.00	\$245.30
03/31/94	Vydrzal Services, Inc. #8108 Road maintainance for month of March		1.1	\$150.00	\$165.00
04/22/94	Cellular One #00026203-040 Current charges		1.1	\$48.13	\$52.94
<u>Subtotal for Subcontractor's Invoices</u>					<u>\$463.24</u>
Equipment Usage					
04/09/94	Gas meter		.5	\$25.00	\$12.50
04/14/94	Gas meter		.5	\$25.00	\$12.50
04/22/94	Gas meter		.5	\$25.00	\$12.50
04/28/94	Gas meter		.5	\$25.00	\$12.50
<u>Subtotal for Equipment Usage</u>					<u>\$50.00</u>
Mileage					
04/09/94		Project Scientist (RS)	35	\$0.26	\$9.10
04/14/94		Project Scientist (RS)	36	\$0.26	\$9.36
04/28/94		Project Scientist (RS)	46	\$0.26	\$11.96
<u>Subtotal for Mileage</u>					<u>\$30.42</u>
FAX					
04/19/94			4	\$1.00	\$4.00
<u>Subtotal for FAX</u>					<u>\$4.00</u>
Postage					
04/13/94			2	\$0.75	\$1.50
04/28/94			2	\$0.75	\$1.50
04/30/94			1	\$0.52	\$0.52
<u>Subtotal for Postage</u>					<u>\$3.52</u>
Miscellaneous Expenses					
04/28/94	Battery for pH & conductivity meters	Project Scientist (RS)	1	\$10.84	\$10.84
<u>Subtotal for Miscellaneous Expenses</u>					<u>\$10.84</u>

AMOUNT DUE \$2,273.27


Kamala Singh
President

PAYMENT DUE UPON RECEIPT

K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants

1135 Legion Drive, Elm Grove, WI 53122 (414) 821 - 1171 FAX (414) 821 - 1174

May 9, 1994

Ms. Margaret Graefe
Wisconsin Department of Natural Resources
4041 N. Richard Street
Milwaukee, WI 53212

Job # 4025

Subject: Monthly Status Report for Sanitary Transfer and Landfill, Delafield, Wisconsin

Dear Ms. Graefe:

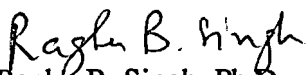
Enclosed please find the monthly status report for April 1994 for the referenced site. Our comments are as follows:

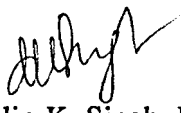
1. Approximately, 165,500 gallons of leachate (about 36 loads) were hauled in April 1994. The Dial Log Plus communication and leachate control systems are functional.
2. The level of methane gas was more than its lower explosive limit (LEL) in gas venting wells, G-1 through G-3 and G-5 through G-8. The results were consistent with the previous round of monitoring. The methane gas detector is calibrated to measure methane only up to its LEL (5 %). The concentration of methane greater than 5 % does not represent actual methane concentration in a gas venting well. It indicates that the concentration is more than its LEL.
3. The concentration of methane ranged from 8.9 to 9.9 % at blower # 1 located at the western part of the landfill. The results were consistent with the previous measurements.
4. The concentration of methane could not be measured at blower # 2 located at the southeast corner of the Ormson Corporation. The electric motor and exhaust were noted non-functional during the site visit on March 17, 1994. A technical specification for blower installation was submitted for WDNR review on April 22, 1994.
5. About 0.9 % methane was recorded at the blower exhaust located along west wall of the Ormson Corporation. The results were consistent with the previous measurements. The electric motor and exhaust at this location were working well.
6. The access road for leachate pumping needs to be repaired. A work plan was submitted to WDNR on February 28, 1994.
7. Twelve private wells were sampled on April 28, 1994. Samples were sent to Suburban Laboratories of Wisconsin, Inc., Waukesha. Test results are awaited.

Please call us, if you have any questions regarding this submittal.

Sincerely,

K. SINGH & ASSOCIATES, INC.


Raghu B. Singh, Ph.D.
Project Scientist


Dilip K. Singh, Ph.D., P.E.
Senior Project Engineer

- Enc: 1. Weekly Methane Monitoring Report
2. Weekly General Monitoring Report
3. Weekly Leachate and Hauling Report
4. AWS Leachate Pumping Data
5. List of Off-site Wells

WEEKLY LEACHATE AND CONDENSATE HAULING REPORT
 SANITARY TRANSFER & LANDFILL, DELAFIELD, WISCONSIN

Date	Hauling Company	10,000 GALLON TANK		2,000 GALLON TANK		CONDENSATE TANK	
		Gallons Pumped	No. of Loads	Gallons Pumped	No. of Loads	Gallons Pumped	No. of Loads
04/01/94 through 04/30/94	Advanced Waste Services Milwaukee	165,500	36	N/A	N/A	N/A	N/A
Weekly Total							
Weekly Total Gallons							
Weekly Total Loads							

04/19/94 09:51

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K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants

1135 Legion Drive, Elm Grove, WI 53122 (414) 821 - 1171 FAX (414) 821 - 1174

SPEED MEMORANDUM

DATE : 04/19/94

TO : Mike Malatesta

COMPANY : Advanced Waste Services (AWS)

FAX # : (414) ~~262-8012~~ 355 7600

TEL. # : (414) 355 - 9027

FROM : Raghu Singh

SUBJECT : Hauling leachate & water from 10,000 gallon & condensate tanks
from April 1 thru 8, 1994
Sanitary Transfer & Landfill, Delafield, Wisconsin

COMMENTS:

Please provide the hauling data by 04/21/94

Date	Leachate from 10,000 gallon tank		Water from condensate tank	
	Gallons hauled	No. of Loads	Gallons hauled	No. of Loads
04/01/94	0			
04/02/94	0			
04/03/94	0			
04/04/94	18000	3		
04/05/94	6000	1		
04/06/94	6000	1		
04/07/94	0			
04/08/94	12000	2		
Total	42000	7		

04/19/94

09:51

002

K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants

1135 Legion Drive, Elm Grove, WI 53122 (414) 821 - 1171 FAX (414) 821 - 1174

SPEED MEMORANDUM

DATE : 04/19/94

TO : Mike Malatesta

COMPANY : Advanced Waste Services (AWS)

FAX # : (414) ~~362-8012~~ 355 7600

TEL. # : (414) 355 - 9027

FROM : Raghu Singh

SUBJECT : Hauling leachate & water from 10,000 gallon & condensate tanks
from April 9 thru 16, 1994
Sanitary Transfer & Landfill, Delafield, Wisconsin

COMMENTS:

Please provide the hauling data by 04/21/94

Date	Activities			
	<u>Leachate from 10,000 gallon tank</u>	<u>Water from condensate tank</u>		
	Gallons hauled	No. of Loads	Gallons hauled	No. of Loads
04/09/94	0			
04/10/94	0			
04/11/94	5500	1		
04/12/94	0			
04/13/94	21000	4		
04/14/94	0			
04/15/94	0			
04/16/94	11000	2		
Total	40500	7		

3 1/2
7/2

04/19/94 09:51

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K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants

1135 Legion Drive, Elm Grove, WI 53122 (414) 821 - 1171 FAX (414) 821 - 1174

SPEED MEMORANDUM

DATE : 04/19/94

TO : Mike Malatesta

COMPANY : Advanced Waste Services (AWS)

FAX # : (414) ~~362-8012~~ 355 7200

TEL. # : (414) 355 - 9027

FROM : Raghu Singh

SUBJECT : Hauling leachate & water from 10,000 gallon & condensate tanks
from April 17 thru 24, 1994
Sanitary Transfer & Landfill, Delafield, Wisconsin

COMMENTS:

Please provide the hauling data by 04/28/94

Date	Activities			
	<u>Leachate from 10,000 gallon tank</u>	<u>Water from condensate tank</u>		
	Gallons hauled	No. of Loads	Gallons hauled	No. of Loads
04/17/94	∅			
04/18/94	22000	4		
04/19/94	∅			
04/20/94	5500	1		
04/21/94	5500	1		
04/22/94	5500	1		
04/23/94	∅			
04/24/94	∅			
Total	39500	7		

K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants

1135 Legion Drive, Elm Grove, WI 53122 (414) 821 - 1171 FAX (414) 821 - 1174

SPEED MEMORANDUM

DATE : 04/19/94
 TO : Mike Malatesta
 COMPANY : Advanced Waste Services (AWS)
 FAX # : (414) ~~362-8012~~ 355 7600
 TEL. # : (414) 355 - 9027
 FROM : Raghu Singh
 SUBJECT : Hauling leachate & water from 10,000 gallon & condensate tanks
 from April 25 thru 30, 1994
 Sanitary Transfer & Landfill, Delafield, Wisconsin

COMMENTS:

Please provide the hauling data by 05/04/94

Date	Activities			
	Leachate from 10,000 gallon tank	Water from condensate tank		
	Gallons hauled	No. of Loads	Gallons hauled	No. of Loads
04/25/94	16500	3		
04/26/94	15000 6000	1		
04/27/94	11000	2		
04/28/94	0			
04/29/94	11000	2		
04/30/94	0			
Total	44500	8		

GROUNDWATER MONITORING FOR OFF-SITE PRIVATE WELLS
 SANITARY TRANSFER & LANDFILL, DELAFIELD, WISCONSIN

Samplers Raghu Singh

Date Time	Well ID.	FIELD OBSERVATIONS							
		Sample Collection Location (Faucet, etc.)	Conductivity	Field Temperature	Odor	Turbidity	Color	pH	Other Comments
	PW # 4								
	PW # 5								
	PW # 11								
4/28/94 4.45	PW # 13/14	Faucet	1001	37°F	No	No	No	7.4	-
4/28/94 4.30	PW # 15	Faucet	902	37°F	No	No	No	7.5	-
4/28/94 4.15	PW # 16	Faucet	979	37°F	No	No	No	7.6	-
4/28/94 4.00	PW # 17	Faucet	1100	37°F	No	No	No	7.7	-
	PW # 21								
4/28/94 6.45	PW # 54	Faucet	1034	37°F	No	No	No	7.9	-
4/28/94 5.15	PW # 55	Faucet	1034	37°F	No	No	No	8.1	-

GROUNDWATER MONITORING FOR OFF-SITE PRIVATE WELLS
 SANITARY TRANSFER & LANDFILL, DELAFIELD, WISCONSIN

Samplers Raghu Singh

Date Time	Well ID.	FIELD OBSERVATIONS							
		Sample Collection Location (Faucet, etc.)	Conductivity	Field Temperature	Odor	Turbidity	Color	pH	Other Comments
	PW # 91								
	PW # 92								
	PW # 94								
4/28/94 2.00	PW # 95	Faucet	1122	37°F	No	No	No	7.2	-
	PW # 96								
4/28/94 2.15	PW # 97	Faucet	1892	37°F	No	No	No	7.0	-
4/28/94 2.30	PW # 99	Faucet	1870	37°F	No	No	No	7.4	-
4/28/94 2.45	PW # 100	Faucet	1595	37°F	No	No	No	7.8	-
4/28/94 3.15	PW # 101	Faucet	1485	37°F	No	No	No	8.1	-
4/28/94 3.30	PW # 102	Faucet	1353	37°F	Yes	No	No	7.3	-

