

TULSA DISPOSAL, LLC

TULSA, OKLAHOMA

APPENDIX 1

TABLES

TABLE OF CONTENTS

Appendix 1 – Tables (listed in order)

Table 1	List of Emergency Response Coordinators
Table 2	Emergency Phone Numbers
Table 3	Closure Cost Estimate

**TABLE I
TULSA DISPOSAL, LLC
LIST OF EMERGENCY COORDINATORS**

Name: Robert K. Kennedy
Title: Facility Contact
Phone: Office: 918-447-9672
Mobile: 918-695-2368
Address: 4626 W. 86th Street
Tulsa, OK 74132

Name: Martin (Marty) Smith
Title: Director, Corrective Actions & Discontinued Operations
Phone: Office: 417-358-0826
Mobile: 417-291-2170
Address: 13652 County Road 180
Carthage, MO 64836

Name: Sam Marquis
Title: Cameron-Cole; Sr. Project Manager
Phone: Office: 303-938-5534
Home: 303-665-2327
Address: 5777 Central Avenue, Suite 200
Boulder, CO 80301

**TABLE II
TULSA DISPOSAL, LLC
EMERGENCY CONTACTS**

Name: Robert K. Kennedy
 Title: Facility Contact
 Phone: Office: 918-447-9672
 Mobile: 918-695-2368
 Address: 4626 W. 86th Street
 Tulsa, OK 74132

Name: Martin (Marty) Smith
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 Carthage, MO 64836

National Response Center	800-424-8802
Tulsa Area Emergency Management Agency	918-596-9899
Tulsa City-County Health Dept.	918-582-9355
OK DEQ Self Report Releases (EPA ID No. OKD 000632737)	800-522-0206

City of Tulsa POTW; Permit No. 3620	918-591-4378 8–5, Mon–Fri.
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Fire	911	Tulsa Fire Dept.	918-596-1781(Fire Incident)
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Police	911	Tulsa Co. Sheriff	918-596-5601
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Ambulance	911		
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Hospital	Concentra Urgent Care – Town West 5682 West Skelly Drive 918-446-1891
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Directions to WorkMed, Inc. from the facility:

- Travel East out of the facility to West 49th Avenue.
- Travel South on West 49th Avenue to West Skelly Drive.
- Travel North on West Skelly Drive to 5682 West Skelly Drive.

TABLE III
TULSA DISPOSAL, LLC
Closure Cost Estimates

Description	Number	Units	Unit Cost	Estimated Cost
Former Recycling Plant Area - 150' x 200' (30000 sf)				
Concrete Containment:				
30000 sf x 1' thick x 1.30 for walls & pedestals/27 = 1450 cy	2950	T&D (nonhaz)/ton*	46.81	138,090
1450 cy x 150 pcf x 27/2000 = approx. 2950 tons.				
Breakup & Excavation 10 days	10	\$/day	5000	50,000
Soil Removal:				
Assume 2' from 15000 sf/27 = approx. 1150 cy.	3105000	T&D (Haz - incin)/ton**	0.29	900,450
1150 cy x 2700#/cy = 3,105,000 # or 1553 tons				
Excavation, etc.	15	\$/day	5000	75,000
Backfill 1150 cy + 1450 cy= 2600cy	2600	\$/cy	8	20,800
Building Demolition				
Dismantle and remove (recycling or C&D Landfill)	3	\$/day	5000	15,000
Surface Equipment (Tank V-68 & V-69, Carbon Unit)				
Discharge water to POTW				
Dissassemble misc. valves, pumps, and piping				
Decontaminate (Pressure wash) Carbon Unit and Tank interiors				
crew	5	\$/day	2750	13,750
Pressure washer	5	\$/day	376	1,880
manlift	5	\$/day	150	750
Analyze Rinsate samples				
analysis for hazardous constituents	1	\$/batch	500	500
Collect and dispose of Rinsate				
2000 gallons = 36 drums	36	T&D (Haz Incin)/drum ***	335	12,060
Dissassemble tanks, load and send to recycling.				
Dismantle and remove (recycle the steel)	4	\$/day	5000	20,000
Abandonment of Trenchs and Wells				
Dissassemble pumps, piping and equipment				
crew	5	\$/day	2750	13,750
Disposal of removed equipment				
Disposal at Lone Mountain Landfill	20	\$/ton	60	1,200
Grout Trenches and wells				
	50	\$/well	600	30,000
	2	\$/well	1500	3,000
Engineering Supervision and Inspection				
50 hours over 10 week period	50	\$/hr	115	5,750
Certification Report				
Technical Writer	60	\$/hr	70	4,200
Clerk	8	\$/hr	60	480

Senior Engineer (Certifier)	8	\$/hr	170	1,360
Principal Engineer	4	\$/hr	275	1,100
Estimated Total Closure Cost				\$ 1,309,120

NOTES:

*Non-haz T&D: Disposal @\$0.01/# or \$20/ton. Transportation to Lone Mountain - 195 miles @\$2.75/mi = \$536.25/ 20 ton load or \$26.81/ton. Total T&D = \$46.81/ton.

**Haz. Incineration T&D: Disposal @ \$0.20/#. Transportation to Aragonite - 1255 miles @\$2.75/mi. = \$3451.25/40000# load or \$0.09/#. Total T&D = \$0.29/#.

*** Haz Incineration, lean water to El Dorado, T&D

Equipment and labor costs derived from Clean Harbors Technical Services Group pricing for one time only customers.

Crew fee per day (10 hour day)	
Supervisor: \$ 87/hr	870
Technician: \$49/hr x3 people	1470
Pickup truck\$167/day	167
PPE: 4 people x \$60/day	240
Total	2747
Estimating Value	2750

Standard Rate for Engineering services from a national engineering firm

Principal Engineer: \$/hr	275
Senior Engineer: \$/hr	170
Engineer Level III: \$/hr	115
Technical Writer: \$/hr	70
Clerk: \$/hr	60