

TULSA DISPOSAL, LLC

TULSA, OKLAHOMA

APPENDIX 1

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**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

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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 1450 cy x 150 pcf x 27/2000 = approx. 2950 tons.	2950	T&D (nonhaz)/ton*	46.81	138,090
Breakup & Excavation 10 days	10	\$/day	5000	50,000
Soil Removal:				
Assume 2' from 15000 sf/27 = approx. 1150 cy. 1150 cy x 2700#/cy = 3,105,000 # or 1553 tons	3105000	T&D (Haz - incin)/ton**	0.29	900,450
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	20	\$/ton	60	1,200
Disposal at Lone Mountain Landfill				
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