



# Chemical Lifecycle Management Cost

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# Chemical Lifecycle Management Cost

Everyone is trying to stretch a dollar . . .



So what can we do to help save money in the lifecycle of chemicals at your facility?

# Challenge

- Reduce hazardous chemicals or use a less toxic chemical and maintain a safe compliant program while reducing costs
  - Budget impacts, changes in the chemical management program and technologies
  - Chemical re-use programs
  - Buying “green”
  - Quantity vs. lifespan

*How can I get the right quality, quantity and price?*

# Chemical Lifecycle Management Cost Analysis Tool: It All Adds Up

- Calculation tool to estimate costs for:
  - Planning
  - Acquisition
  - Receiving
  - Storage & Inventory
  - Disposition

Chemical Lifecycle Management Cost Analysis Tool

<b>Planning Cost:</b>	
One Time Charge:	\$0.00
Employee(s) Time Per Review	<a href="#">Planning Sheet</a>
Hourly Cost	
Total Hourly Cost	\$0.00
<b>Total Planning Cost</b>	<b>\$0.00</b>
<hr/>	
<b>Acquisition Cost:</b>	
One Time Charge:	\$0.00
Time Required Per Acquisition	<a href="#">Acquisition Sheet</a>
Hourly Cost	
Total Hourly Cost	\$0.00
Item Cost	
<b>Acquisition Cost</b>	<b>\$0.00</b>
<hr/>	
<b>Receiving Cost:</b>	
One Time Charge:	\$0.00
Time Required For Receiving	<a href="#">Receiving Sheet</a>
Hourly Cost	
Total Hourly Cost	\$0.00
<b>Total Receiving Cost</b>	<b>\$0.00</b>
<hr/>	
<b>Storage and Inventory Cost:</b>	
One Time Charge:	\$0.00
Cost/Month Square Foot for Storage	<a href="#">Storage Sheet</a>
sq/ft Area Required for New Chemical	
Estimated Storage Time (Days)	
<b>Total Storage Cost/Month</b>	<b>\$0.00</b>
<hr/>	
<b>Disposition Cost:</b>	
One Time Charge:	\$0.00
Recycle Cost/Item	<a href="#">Disposition Sheet</a>
Waste Disposal Cost/Item	
Special Waste Costs/Item	
<b>Total Disposition Cost</b>	<b>\$0.00</b>
<hr/>	
<b>TOTAL LIFE-CYCLE COST</b>	<b>\$0.00</b>

# Cost Analysis Tool (cont)

## Chemical Lifecycle Management Cost Analysis Tool

### Planning Cost:

One Time Charge:	<input type="text" value="\$0.00"/>
<a href="#">Planning Sheet</a>	\$0.00
Employee(s) Time Per Review	<input type="text" value=""/>
Hourly Cost	<input type="text" value=""/>
<b>Total Hourly Cost</b>	\$0.00
<b>Total Planning Cost</b>	\$0.00

### Acquisition Cost:

One Time Charge:	<input type="text" value="\$0.00"/>
<a href="#">Acquisition Sheet</a>	\$0.00
Time Required Per Acquisition	<input type="text" value=""/>
Hourly Cost	<input type="text" value=""/>
<b>Total Hourly Cost</b>	\$0.00
Item Cost	<input type="text" value=""/>
<b>Acquisition Cost</b>	\$0.00

### Receiving Cost:

One Time Charge:	<input type="text" value="\$0.00"/>
<a href="#">Receiving Sheet</a>	\$0.00
Time Required For Receiving	<input type="text" value=""/>
Hourly Cost	<input type="text" value=""/>
<b>Total Hourly Cost</b>	\$0.00
<b>Total Receiving Cost</b>	\$0.00

### Storage and Inventory Cost:

One Time Charge:	<input type="text" value="\$0.00"/>
<a href="#">Storage Sheet</a>	\$0.00
Cost/Month Square Foot for Storage	<input type="text" value=""/>
sq/ft Area Required for New Chemical	<input type="text" value=""/>
Estimated Storage Time (Days)	<input type="text" value=""/>
<b>Total Storage Cost/Month</b>	\$0.00

### Disposition Cost:

One Time Charge:	<input type="text" value="\$0.00"/>
<a href="#">Disposition Sheet</a>	\$0.00
Recycle Cost/Item	<input type="text" value=""/>
Waste Disposal Cost/Item	<input type="text" value=""/>
Special Waste Costs/Item	<input type="text" value=""/>
<b>Total Disposition Cost</b>	\$0.00

**TOTAL LIFE-CYCLE COST**

- Planning
  - Research
  - Identify chemical needs and purpose
  - Hazard review

# Cost Analysis Tool: Planning (cont)

- Level of detail
  - Enter specific activities involved in the preparation for procuring, receiving, storing and disposing of a chemical product

	A	B	C	D	E	F	G	H	I	
1				Chemical Lifecycle Management Cost Analysis Tool Planning						
2										
3			Burdened Rate:							
4										
5										
6			Labor:	Hours		Cost/Hr				
7			Acquire MSDS	1		\$10.00		MSDS Cost:	\$10.00	
8										
9			Hazard Analysis	Hours		Cost/Hr		Total Hr Cost		
10			Industrial Hygiene	1.00		\$15.00		\$15.00		
11			Environmental	1.00		\$10.00		\$10.00		
12			Emergency Preparedness	1.00		\$10.00		\$10.00		
13			Fire Safety	1.00		\$15.00		\$15.00		
14			Waste	1.00		\$10.00		\$10.00		
15			Chemical Management	2.00		\$10.00		\$20.00		
16			Transportation					\$0.00		
17										
18			Total Hours:	7.00		Total Analysis Cost:		\$80.00		
19										
20			Total Planning Cost:	\$90.00						
21										
22										
23										
24										
25										
26										
27										
28										

# Navigating the Cost Analysis Tool

15		Chemical Management	2.00		\$10.00	\$20.00
16		Transportation				\$0.00
17						
18		Total Hours:	7.00		Total Analysis Cost:	
19						
20		Total Planning Cost:	\$90.00			
21						
22						
23						
24						
25						
26						
27						
28						

Worksheet Planning Acquisition Receiving Storage Final Disposition

Ready

- Navigate between Worksheets and Analysis Tool
  - At the bottom of the excel sheet you can click on the tabs to go to the different worksheets or back to the Analysis Tool worksheet

# Cost Analysis Tool (cont)

## Chemical Lifecycle Management Cost Analysis Tool

### Planning Cost:

One Time Charge:		\$0.00
Employee(s) Time Per Review		
Hourly Cost		
<b>Total Hourly Cost</b>	\$0.00	
<b>Total Planning Cost</b>	\$0.00	

### Acquisition Cost:

One Time Charge:		\$0.00
Time Required Per Acquisition		
Hourly Cost		
<b>Total Hourly Cost</b>	\$0.00	
Item Cost		
<b>Acquisition Cost</b>	\$0.00	

### Receiving Cost:

One Time Charge:		\$0.00
Time Required For Receiving		
Hourly Cost		
<b>Total Hourly Cost</b>	\$0.00	
<b>Total Receiving Cost</b>	\$0.00	

### Storage and Inventory Cost:

One Time Charge:		\$0.00
Cost/Month Square Foot for Storage		
sq/ft Area Required for New Chemical		
Estimated Storage Time (Days)		
<b>Total Storage Cost/Month</b>	\$0.00	

### Disposition Cost:

One Time Charge:		\$0.00
Recycle Cost/Item		
Waste Disposal Cost/Item		
Special Waste Costs/Item		
<b>Total Disposition Cost</b>	\$0.00	

**TOTAL LIFE-CYCLE COST** \$0.00

- Acquisition
  - Costs to procure the chemical
  - One-time charges
  - Labor

# Cost Analysis Tool: Acquisition (cont)

- Level of detail
  - Breakdown activities and labor such as requestor, purchaser, etc.

	A	B	C	D	E	F	G	H	I	J	
1				Chemical Lifecycle Management Cost Analysis Tool Acquisition							
2											
3		Burdened Rate:									
4											
5											
6		Labor:									
7											
8		Time/Cost per Acquisition:									
9				Hours		Cost/Hr	Total Hr Cost				
10			Requestor	1		\$10.00	\$10.00				
11			Chem Mgmt	1		\$10.00	\$10.00				
12			Purchaser	1		\$10.00	\$10.00				
13			Total Hours	3	Total Hourly Cost:		\$30.00				
14											
15		Transportation Costs:									
16			Special Handling			\$2.50					
17			Special Freight Cost								
18					Added Freight Cost:		\$2.50				
19		Total Acquisition Cost		\$32.50							
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											

# Cost Analysis Tool (cont)

## Chemical Lifecycle Management Cost Analysis Tool

### Planning Cost:

One Time Charge:	<input type="text"/>	\$0.00
Employee(s) Time Per Review	<input type="text"/>	
Hourly Cost	<input type="text"/>	
<b>Total Hourly Cost</b>	<input type="text"/>	\$0.00
<b>Total Planning Cost</b>	<input type="text"/>	\$0.00

### Acquisition Cost:

One Time Charge:	<input type="text"/>	\$0.00
Time Required Per Acquisition	<input type="text"/>	
Hourly Cost	<input type="text"/>	
<b>Total Hourly Cost</b>	<input type="text"/>	\$0.00
Item Cost	<input type="text"/>	
<b>Acquisition Cost</b>	<input type="text"/>	\$0.00

### Receiving Cost:

One Time Charge:	<input type="text"/>	\$0.00
Time Required For Receiving	<input type="text"/>	
Hourly Cost	<input type="text"/>	
<b>Total Hourly Cost</b>	<input type="text"/>	\$0.00
<b>Total Receiving Cost</b>	<input type="text"/>	\$0.00

### Storage and Inventory Cost:

One Time Charge:	<input type="text"/>	\$0.00
Cost/Month Square Foot for Storage	<input type="text"/>	
sq/ft Area Required for New Chemical	<input type="text"/>	
Estimated Storage Time (Days)	<input type="text"/>	
<b>Total Storage Cost/Month</b>	<input type="text"/>	\$0.00

### Disposition Cost:

One Time Charge:	<input type="text"/>	\$0.00
Recycle Cost/Item	<input type="text"/>	
Waste Disposal Cost/Item	<input type="text"/>	
Special Waste Costs/Item	<input type="text"/>	
<b>Total Disposition Cost</b>	<input type="text"/>	\$0.00

**TOTAL LIFE-CYCLE COST**  \$0.00

- Receiving
  - What is it going to cost to get the chemical to your facility?

# Cost Analysis Tool: Receiving (cont)

- Level of detail
  - Delivery, receipt, stocking, etc.

	A	B	C	D	E	F	G	H	I	J	K	
1				Chemical Lifecycle Management Cost Analysis Tool Receiving								
2												
3				Burdened Rate:								
4												
5												
6				Labor:								
7					Hours	Cost/Hr	Total Hr Cost					
8				Deliver	1	\$9.00	\$9.00					
9				Receiver	1	\$9.00	\$9.00					
10				Chem Mgmt	1	\$9.00	\$9.00					
11				Total Hours:	3	Total Cost:	\$27.00					
12												
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# Cost Analysis Tool (cont)

## Chemical Lifecycle Management Cost Analysis Tool

### Planning Cost:

One Time Charge:		\$0.00
Employee(s) Time Per Review	Planning Sheet	
Hourly Cost		
<b>Total Hourly Cost</b>		\$0.00
<b>Total Planning Cost</b>		\$0.00

### Acquisition Cost:

One Time Charge:		\$0.00
Time Required Per Acquisition	Acquisition Sheet	
Hourly Cost		
<b>Total Hourly Cost</b>		\$0.00
Item Cost		
<b>Acquisition Cost</b>		\$0.00

### Receiving Cost:

One Time Charge:		\$0.00
Time Required For Receiving	Receiving Sheet	
Hourly Cost		
<b>Total Hourly Cost</b>		\$0.00
<b>Total Receiving Cost</b>		\$0.00

### Storage and Inventory Cost:

One Time Charge:		\$0.00
Cost/Month Square Foot for Storage	Storage Sheet	
sq/ft Area Required for New Chemical		
Estimated Storage Time (Days)		
<b>Total Storage Cost/Month</b>		\$0.00

### Disposition Cost:

One Time Charge:		\$0.00
Recycle Cost/Item	Disposition Sheet	
Waste Disposal Cost/Item		
Special Waste Costs/Item		
<b>Total Disposition Cost</b>		\$0.00

**TOTAL LIFE-CYCLE COST** \$0.00

- Storage & Inventory
  - What's it going to cost to get the chemical *into* your facility?
- Storage can vary due to:
  - Temperature controlled
  - Flammable
  - Corrosive
  - Space requirements

# Cost Analysis Tool: Storage & Inventory (cont)

- Level of detail
  - Data entry
  - Tracking
  - Surveillance
  - Cost for storage location

	A	B	C	D	E	F	G	H	I	J	K
1											
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27											
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29											

# Cost Analysis Tool (cont)

## Chemical Lifecycle Management Cost Analysis Tool

### Planning Cost:

One Time Charge:	<input type="text" value="\$0.00"/>	\$0.00
Employee(s) Time Per Review	<input type="text" value=""/>	
Hourly Cost	<input type="text" value="\$0.00"/>	
<b>Total Hourly Cost</b>	<b>\$0.00</b>	
<b>Total Planning Cost</b>	<b>\$0.00</b>	

### Acquisition Cost:

One Time Charge:	<input type="text" value="\$0.00"/>	\$0.00
Time Required Per Acquisition	<input type="text" value=""/>	
Hourly Cost	<input type="text" value="\$0.00"/>	
<b>Total Hourly Cost</b>	<b>\$0.00</b>	
Item Cost	<input type="text" value="\$0.00"/>	
<b>Acquisition Cost</b>	<b>\$0.00</b>	

### Receiving Cost:

One Time Charge:	<input type="text" value="\$0.00"/>	\$0.00
Time Required For Receiving	<input type="text" value=""/>	
Hourly Cost	<input type="text" value="\$0.00"/>	
<b>Total Hourly Cost</b>	<b>\$0.00</b>	
<b>Total Receiving Cost</b>	<b>\$0.00</b>	

### Storage and Inventory Cost:

One Time Charge:	<input type="text" value="\$0.00"/>	\$0.00
Cost/Month Square Foot for Storage	<input type="text" value=""/>	
sq/ft Area Required for New Chemical	<input type="text" value=""/>	
Estimated Storage Time (Days)	<input type="text" value=""/>	
<b>Total Storage Cost/Month</b>	<b>\$0.00</b>	

### Disposition Cost:

One Time Charge:	<input type="text" value="\$0.00"/>	\$0.00
Recycle Cost/Item	<input type="text" value=""/>	
Waste Disposal Cost/Item	<input type="text" value=""/>	
Special Waste Costs/Item	<input type="text" value=""/>	
<b>Total Disposition Cost</b>	<b>\$0.00</b>	

**TOTAL LIFE-CYCLE COST**

- Disposition
  - Recycling
  - Special disposal requirements
  - Packaging
  - Transportation

# Cost Analysis Tool: Disposal (cont)

- Level of detail
  - Recycle/Excess costs
  - Shipping
  - Transportation
  - Special Handling
  - Freight

Chemical Lifecycle Management Cost Analysis Tool **Final Disposition**

Burdened Rate:			
Labor:			
<b>Recycle/Excess Program:</b>			
	Hours	Cost/Hr	Total Hr Cost
Chem Mgmt	1	\$10.00	\$10.00
Assets Control	1	\$10.00	\$10.00
Packaging	1	\$10.00	\$10.00
Shipper	1	\$10.00	\$10.00
Transportation	1	\$10.00	\$10.00
Receiving	1	\$10.00	\$10.00
<b>Total Hours:</b>	<b>6</b>	<b>Total Hour Cost:</b>	<b>\$60.00</b>
<b>Waste Disposition:</b>			
	Hours	Cost/Hr	Total Hr Cost
Chem Mgmt			\$0.00
Waste Support			\$0.00
Packaging			\$0.00
Shipper			\$0.00
Transportation			\$0.00
<b>Total Hours:</b>	<b>0</b>	<b>Total Hour Cost:</b>	<b>\$0.00</b>
<b>Transportation Costs:</b>			
Special Handling			
Special Freight Cost			
<b>Temporary Storage Cost:</b>			
			<b>Total Disposition Cost: \$60.00</b>

# Cost Analysis Tool: Demonstration

Chemical Lifecycle Management Cost Analysis Tool

**Planning Cost:**

One Time Charge:  \$0.00

[Planning sheet](#)

Employee(s) Time Per Review

Hourly Cost

**Total Hourly Cost** \$0.00

**Total Planning Cost** \$0.00

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**Acquisition Cost:**

One Time Charge:  \$0.00

[Acquisition Sheet](#)

Time Required Per Acquisition

Hourly Cost

**Total Hourly Cost** \$0.00

Item Cost

**Acquisition Cost** \$0.00

---

**Receiving Cost:**

One Time Charge:  \$0.00

[Receiving Cost](#)

Time Required For Receiving

Hourly Cost

**Total Hourly Cost** \$0.00

**Total Receiving Cost** \$0.00

---

**Storage and Inventory Cost:**

One Time Charge:  \$0.00

[Storage Sheet](#)

Cost/Month Square Foot for Storage

sq/ft Area Required for New Chemical

Estimated Storage Time (Days)

**Total Storage Cost/Month** \$0.00

---

**Disposition Cost:**

Worksheet Planning Acquisition Receiving Storage Final Disposition Sheet2 Sheet3

## Demonstration Scenario

- A pre-approved chemical purchase but in a case amount (12 items)

# Cost Analysis Tool: Demonstration

- Pre-approved chemical purchase
- 12 cans purchased (1 case)
- Job requires 1 can
- Storage time 1 year
- Disposition excess in 1 year

Example is one case of WD-40 Aerosol Can



# Chemical Lifecycle Management Cost Analysis Tool

## Planning Cost:

One Time Charge:			
	<a href="#">Planning Sheet</a>		\$0.00
Employee(s) Time Per Review			
Hourly Cost			
<b>Total Hourly Cost</b>		\$0.00	
<b>Total Planning Cost</b>			\$0.00

## Acquisition Cost:

One Time Charge:			
	<a href="#">Acquisition Sheet</a>		\$0.00
Time Required Per Acquisition		0.25	
Hourly Cost		\$10.00	
<b>Total Hourly Cost</b>		\$2.50	
Item Cost		\$60.00	
<b>Acquisition Cost</b>			\$62.50

## Receiving Cost:

One Time Charge:			
	<a href="#">Receiving Sheet</a>		\$0.00
Time Required For Receiving		1	
Hourly Cost		\$10.00	
<b>Total Hourly Cost</b>		\$10.00	
<b>Total Receiving Cost</b>			\$10.00

## Storage and Inventory Cost:

One Time Charge:			
	<a href="#">Storage Sheet</a>		\$7.50
Cost/Month Square Foot for Storage		\$2.50	
sq/ft Area Required for New Chemical		1	
Estimated Storage Time (Days)		365	
<b>Total Storage Cost/Month</b>			\$37.92

## Disposition Cost:

One Time Charge:			
	<a href="#">Disposition Sheet</a>		\$45.00
Recycle Cost/Item			
Waste Disposal Cost/Item			
Special Waste Costs/Item			
<b>Total Disposition Cost</b>			\$45.00

**TOTAL LIFE-CYCLE COST** \$155.42

**Enter in estimated cost for 1 case of WD-40**

**Hourly cost spent**

**Cost per can is \$5 when buying a case (\$60)**

**Remember they only need one can for the job**

# Chemical Lifecycle Management Cost Analysis Tool

## Planning Cost:

One Time Charge:			
	<a href="#">Planning Sheet</a>		\$0.00
Employee(s) Time Per Review			
Hourly Cost			
<b>Total Hourly Cost</b>		\$0.00	
<b>Total Planning Cost</b>			\$0.00

## Acquisition Cost:

One Time Charge:			
	<a href="#">Acquisition Sheet</a>		\$0.00
Time Required Per Acquisition		0.25	
Hourly Cost		\$10.00	
<b>Total Hourly Cost</b>		\$2.50	
Item Cost		\$60.00	
<b>Acquisition Cost</b>			\$62.50

## Receiving Cost:

One Time Charge:			
	<a href="#">Receiving Sheet</a>		\$0.00
Time Required For Receiving		1	
Hourly Cost		\$10.00	
<b>Total Hourly Cost</b>		\$10.00	
<b>Total Receiving Cost</b>			\$10.00

## Storage and Inventory Cost:

One Time Charge:			
	<a href="#">Storage Sheet</a>		\$7.50
Cost/Month Square Foot for Storage		\$2.50	
sq/ft Area Required for New Chemical		1	
Estimated Storage Time (Days)		365	
<b>Total Storage Cost/Month</b>			\$37.92

## Disposition Cost:

One Time Charge:			
	<a href="#">Disposition Sheet</a>		\$45.00
Recycle Cost/Item			
Waste Disposal Cost/Item			
Special Waste Costs/Item			
<b>Total Disposition Cost</b>			\$45.00

**TOTAL LIFE-CYCLE COST** \$155.42

**Estimated cost for receiving products**

**1 case of WD-40**

# Chemical Lifecycle Management Cost Analysis Tool

## Planning Cost:

One Time Charge:			
	<a href="#">Planning Sheet</a>		\$0.00
Employee(s) Time Per Review			
Hourly Cost			
<b>Total Hourly Cost</b>		\$0.00	
<b>Total Planning Cost</b>			\$0.00

## Acquisition Cost:

One Time Charge:			
	<a href="#">Acquisition Sheet</a>		\$0.00
Time Required Per Acquisition		0.25	
Hourly Cost		\$10.00	
<b>Total Hourly Cost</b>		\$2.50	
Item Cost		\$60.00	
<b>Acquisition Cost</b>			\$62.50

## Receiving Cost:

One Time Charge:			
	<a href="#">Receiving Sheet</a>		\$0.00
Time Required For Receiving		1	
Hourly Cost		\$10.00	
<b>Total Hourly Cost</b>		\$10.00	
<b>Total Receiving Cost</b>			\$10.00

## Storage and Inventory Cost:

One Time Charge:			
	<a href="#">Storage Sheet</a>		\$7.50
Cost/Month Square Foot for Storage		\$2.50	
sq/ft Area Required for New Chemical		1	
Estimated Storage Time (Days)		365	
<b>Total Storage Cost/Month</b>			\$37.92

## Disposition Cost:

One Time Charge:			
	<a href="#">Disposition Sheet</a>		\$45.00
Recycle Cost/Item			
Waste Disposal Cost/Item			
Special Waste Costs/Item			
<b>Total Disposition Cost</b>			\$45.00

**TOTAL LIFE-CYCLE COST** \$155.42

**Estimated cost for  
Storing the products for  
1 year**

**1 case of WD-40**

Chemical Lifecycle Management Cost Analysis Tool **Storage**

Burdened Rate:

Labor:

Storage Tracking/Inventory Per Location:

	Hours	Cost/Hr	Total Hr Cost
Chem Mgmt Data & Tracking per Month	0.5	\$10.00	\$5.00
Surveillance per Month	0.25	\$10.00	\$2.50
<b>Total Hours:</b>	<b>0.75</b>	<b>Total Hour Cost:</b>	<b>\$7.50</b>

Storage:

Cost Per Square Foot/Month	
Square Foot Storage Required For Chemicals	
<b>Total Cost to Store Item/Month:</b>	<b>\$0.00</b>

Estimated Monthly Maintenance Cost: **\$7.50**

**Estimate the maintenance cost for surveillance and inventory for tracking**

# Chemical Lifecycle Management Cost Analysis Tool

## Planning Cost:

One Time Charge:		
	<a href="#">Planning Sheet</a>	\$0.00
Employee(s) Time Per Review		
Hourly Cost		
<b>Total Hourly Cost</b>	\$0.00	
<b>Total Planning Cost</b>		\$0.00

## Acquisition Cost:

One Time Charge:		
	<a href="#">Acquisition Sheet</a>	\$0.00
Time Required Per Acquisition	0.25	
Hourly Cost	\$10.00	
<b>Total Hourly Cost</b>	\$2.50	
Item Cost	\$60.00	
<b>Acquisition Cost</b>		\$62.50

## Receiving Cost:

One Time Charge:		
	<a href="#">Receiving Sheet</a>	\$0.00
Time Required For Receiving	1	
Hourly Cost	\$10.00	
<b>Total Hourly Cost</b>	\$10.00	
<b>Total Receiving Cost</b>		\$10.00

## Storage and Inventory Cost:

One Time Charge:		
	<a href="#">Storage Sheet</a>	\$7.50
Cost/Month Square Foot for Storage	\$2.50	
sq/ft Area Required for New Chemical	1	
Estimated Storage Time (Days)	365	
<b>Total Storage Cost/Month</b>		\$37.92

## Disposition Cost:

One Time Charge:		
	<a href="#">Disposition Sheet</a>	\$45.00
Recycle Cost/Item		
Waste Disposal Cost/Item		
Special Waste Costs/Item		
<b>Total Disposition Cost</b>		\$45.00

**TOTAL LIFE-CYCLE COST** \$155.42

**Disposition worksheet  
for more detailed  
information**

**1 case of WD-40**

Labor:

<b>Recycle/Excess Program:</b>			
	Hours	Cost/Hr	Total Hr Cost
Chem Mgmt	1	\$10.00	\$10.00
Assets Control	1	\$10.00	\$10.00
Packaging	0.5	\$10.00	\$5.00
Shipper	0.5	\$10.00	\$5.00
Transportation	1	\$10.00	\$10.00
Receiving	0.5	\$10.00	\$5.00
<b>Total Hours:</b>	<b>4.5</b>	<b>Total Hour Cost:</b>	<b>\$45.00</b>

**Waste Disposition:**

	Hours	Cost/Hr	Total Hr Cost
Chem Mgmt		\$10.00	\$0.00
Waste Support		\$10.00	\$0.00
Packaging		\$10.00	\$0.00
Shipper		\$10.00	\$0.00
Transportation		\$10.00	\$0.00
<b>Total Hours:</b>	<b>0</b>	<b>Total Hour Cost:</b>	<b>\$0.00</b>

**Transportation Costs:**

Special Handling	
Special Freight Cost	

**Temporary Storage Cost:**

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**Total Disposition Cost:** \$45.00

**The disposition worksheet**

**Estimated labor cost for disposition of excess as recycled items**

# Chemical Lifecycle Management Cost Analysis Tool

## Planning Cost:

One Time Charge:		\$0.00
Employee(s) Time Per Review	Planning Sheet	
Hourly Cost		
<b>Total Hourly Cost</b>		\$0.00
<b>Total Planning Cost</b>		\$0.00

## Acquisition Cost:

One Time Charge:		\$0.00
Time Required Per Acquisition	Acquisition Sheet	0.25
Hourly Cost		\$10.00
<b>Total Hourly Cost</b>		\$2.50
Item Cost		\$60.00
<b>Acquisition Cost</b>		\$62.50

## Receiving Cost:

One Time Charge:		\$0.00
Time Required For Receiving	Receiving Sheet	1
Hourly Cost		\$10.00
<b>Total Hourly Cost</b>		\$10.00
<b>Total Receiving Cost</b>		\$10.00

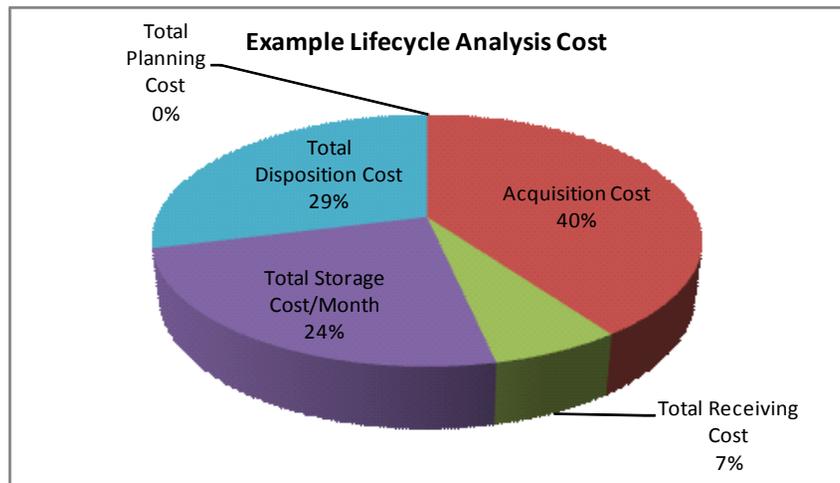
## Storage and Inventory Cost:

One Time Charge:		\$7.50
Cost/Month Square Foot for Storage	Storage Sheet	\$2.50
sq/ft Area Required for New Chemical		1
Estimated Storage Time (Days)		365
<b>Total Storage Cost/Month</b>		\$37.92

## Disposition Cost:

One Time Charge:		\$45.00
Recycle Cost/Item	Disposition Sheet	
Waste Disposal Cost/Item		
Special Waste Costs/Item		
<b>Total Disposition Cost</b>		\$45.00

**TOTAL LIFE-CYCLE COST** \$155.42



They only used 1 can out of that case.

Disposition cost for excess items included in lifecycle cost

Final estimated lifecycle cost \$155.42 = \$12.95 per can

Labor:

**Recycle/Excess Program:**

	Hours	Cost/Hr	Total Hr Cost
Chem Mgmt			\$0.00
Assets Control			\$0.00
Packaging			\$0.00
Shipper			\$0.00
Transportation			\$0.00
Receiving			\$0.00
<b>Total Hours:</b>	0	<b>Total Hour Cost:</b>	\$0.00

**Waste Disposition:**

	Hours	Cost/Hr	Total Hr Cost
Chem Mgmt	4	\$10.00	\$40.00
Waste Support	8	\$10.00	\$80.00
Packaging	4	\$10.00	\$40.00
Shipper	8	\$10.00	\$80.00
Transportation			\$0.00
<b>Total Hours:</b>	24	<b>Total Hour Cost:</b>	\$240.00

**Transportation Costs:**

Special Handling	
Special Freight Cost	

**Temporary Storage Cost:**

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**Total Disposition Cost:** \$240.00

**The disposition worksheet**

**Estimated cost for disposal  
of excess as waste**

# Chemical Lifecycle Management Cost Analysis Tool

## Planning Cost:

One Time Charge:	<input type="text" value=""/>	\$0.00
Employee(s) Time Per Review	<input type="text" value=""/>	
Hourly Cost	<input type="text" value=""/>	
<b>Total Hourly Cost</b>	<input type="text" value="\$0.00"/>	
<b>Total Planning Cost</b>	<input type="text" value="\$0.00"/>	

## Acquisition Cost:

One Time Charge:	<input type="text" value=""/>	\$0.00
Time Required Per Acquisition	<input type="text" value="0.25"/>	
Hourly Cost	<input type="text" value="\$10.00"/>	
<b>Total Hourly Cost</b>	<input type="text" value="\$2.50"/>	
Item Cost	<input type="text" value="\$60.00"/>	
<b>Acquisition Cost</b>	<input type="text" value="\$62.50"/>	

## Receiving Cost:

One Time Charge:	<input type="text" value=""/>	\$0.00
Time Required For Receiving	<input type="text" value="1"/>	
Hourly Cost	<input type="text" value="\$10.00"/>	
<b>Total Hourly Cost</b>	<input type="text" value="\$10.00"/>	
<b>Total Receiving Cost</b>	<input type="text" value="\$10.00"/>	

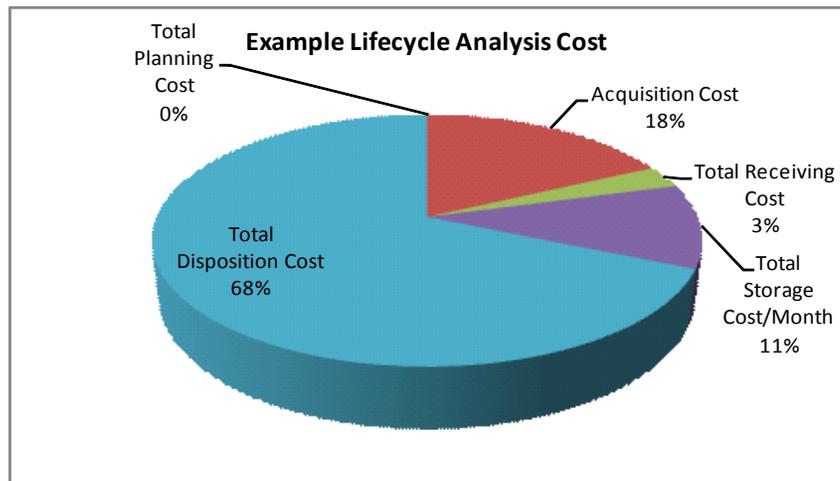
## Storage and Inventory Cost:

One Time Charge:	<input type="text" value=""/>	\$7.50
Cost/Month Square Foot for Storage	<input type="text" value="\$2.50"/>	
sq/ft Area Required for New Chemical	<input type="text" value="1"/>	
Estimated Storage Time (Days)	<input type="text" value="365"/>	
<b>Total Storage Cost/Month</b>	<input type="text" value="\$37.92"/>	

## Disposition Cost:

One Time Charge:	<input type="text" value=""/>	\$240.00
Recycle Cost/Item	<input type="text" value=""/>	
Waste Disposal Cost/Item	<input type="text" value=""/>	
Special Waste Costs/Item	<input type="text" value=""/>	
<b>Total Disposition Cost</b>	<input type="text" value="\$240.00"/>	

**TOTAL LIFE-CYCLE COST**



**They only used 1 can out of that case.**

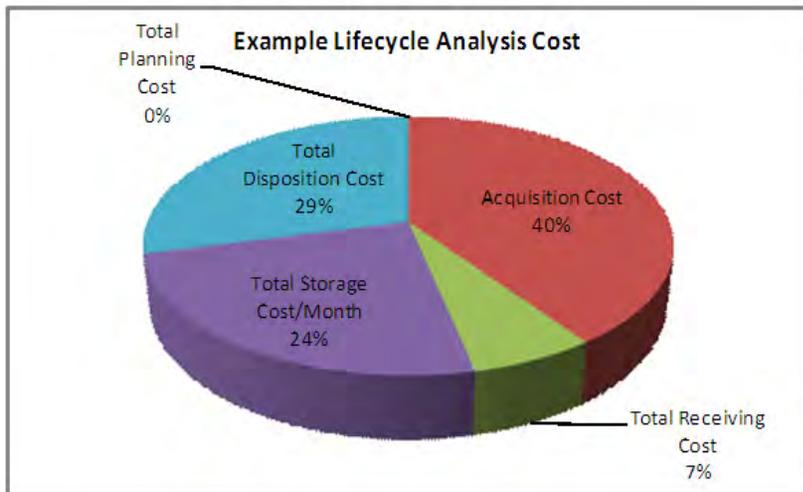
**Labor cost for disposal of items as waste included in lifecycle cost**

**Final estimated lifecycle cost \$350.42 = \$29.20 per can**

# Disposition Cost

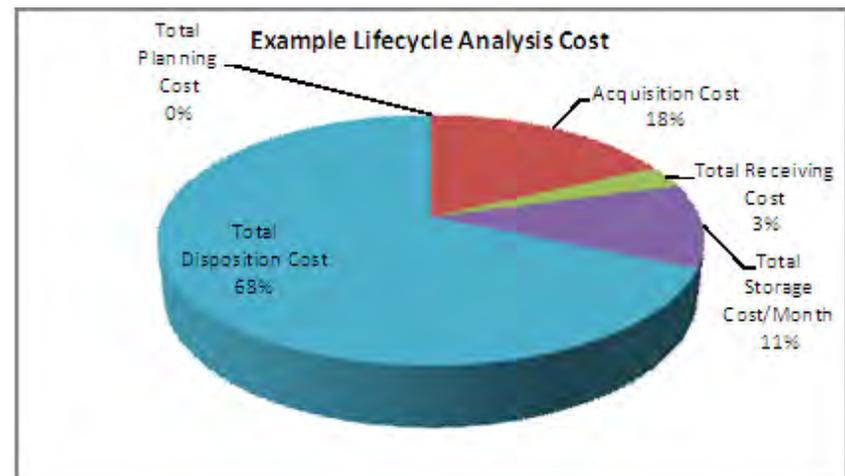
## Excess Items as Recycled

WD-40 Case estimated lifecycle cost \$155.42



## Excess Items as Waste

WD-40 Case estimated lifecycle cost \$350.42



# Questions?



Thank you

Jeff Hieb, CH2M HILL Plateau Remediation Company

