BONDING WORKSHEETS FOR WASTE TRANSFER STATIONS

Revised August 30, 2001



General Information

Permits: Please list all permits, approvals, licenses, registrations, other bonds, etc. for this facility.

I.D.# ¹	Authority ²	Summary ³

- 1. List the permit I.D. number, registration number, etc. If there is no number, put in "none".
- 2. List the issuing authority's name, address and telephone number
- 3. List any closure features or monitoring requirements. As examples: For storage tanks, list the number, type and size of tanks. For NPDES permits list the number of outfalls to be monitored and ponds/plants to be maintained and/or closed.

Date Prepared	

I.D. Number	

BONDING WORKSHEET A TRANSFER FACILITY DECONTAMINATION

How do I start? Select a likely "worst case" scenario where you would have a maximum amount of the facility open and in need of closure. Provide a description of the scenario stages:

1.	Maximum volume of waste to be removed from storage, tipping floor and equipment.:		CY
2.	Unit cost to dispose of waste off-site (this should include, but not be limited to removal, transportation and disposal costs).		\$/CY
3.	Cost to decontaminate floors, scales, equipment	1	LS
4.	Volume of contaminated soils to be removed		CY
5.	Unit cost to dispose of soils off-site (this should include, but not be limited to sampling, analysis, removal, transportation and disposal costs).		\$/CY
6.	Volume of wastewater generated during decontamination.		Gal
7.	Unit cost to dispose of decontamination water	;	\$/Gal
8.	Cost for facility maintenance:		LS
9.	Engineering and QA/QC costs		LS
10.	Cost Summary		
	a. Waste Removal (line 1 x line 2)	\$	
	b. Facility decontamination (line 3)	\$	
	c. Contaminated soils (line 4 x line 5)	\$	
	d. Wastewater disposal (line 6 x line 7)	\$	
	e. Maintenance (line 8)	\$	
	f. QA/QC (line 9)	\$	
	Total	\$	

(Place this total on Summary Cost Worksheet – line 1)

Date Prepared	

I.D. Number	

BONDING WORKSHEET B SURFACE WATER MONITORING

		SURFACE WATER MONITORI	NG	
Sol	id V	/aste Surface Water Sampling		
1.	Nur	nber of surface points monitored for Solid Waste Permit		
2.	Uni	t cost to sample a surface point (record keeping and shipping)		\$/point
3.	Uni	t cost to analyze sample(s)		
	a.	Quarterly (25 PA Code §279.233)		\$/point
	b.	Annually (25 PA Code §279.233)		\$/point
4.		t cost to analyze data (includes review of lab QA/QC data, abase input, form completion, and data review)	;	\$/point
5.		et to sample and analyze: quarterly e 2 + line 3a + line 4)	;	\$/point
6.		et to sample and analyze: annually e 2 + line 3b + line 4)	;	\$/point
7.	Nur	nber of years of sampling (time to close)		years
NP	DES	Surface Discharge Sampling		
8.	Nur	nber of outfalls monitored		
9.	Mor	nitoring frequency (i.e. monthly, quarterly, etc)		
10.	Nur	nber of samples to be taken per point/year		
11.	Uni	t cost to sample a surface point (record keeping and shipping)		\$/point
12.		t cost to analyze sample(s) (including data review and inpleting DMR)		\$/point
13.	Nur	nber of years of sampling (+ time to close)		years
14.	Cos	st Summary –Surface Water Monitoring		
	a.	Cost of Quarterly Surface Water Monitoring (line 1 x "4" x line 5 x line 7)	\$	
	b.	Cost of Annual Surface Water Monitoring (line 1 x line 6 x line 7)	\$	
	C.	Cost of NPDES Monitoring (line 8 x line 10 x [line 11 + line 12] x line 13)	\$	
	d.	NPDES renewals (includes application development, fees, etc.) use 10% of line 14c	\$	
		Subtotal	\$	

2540-FM-BWM0583 6/2005

Adjustment for resampling, assessments, etc.

- a. Use 0% of subtotal if no assessments in last 2 yrs.b. Use 5% of subtotal if assessment in last 2 yrs.
- Use 10% if in assessment, abatement or increased monitoring

Total	\$	
(Place	e this total on Summary Cost Workshee	t – line 2

2540-FM-BWM0583 6	/2005
-------------------	-------

Date Prepared	

I.D. Number	

BONDING WORKSHEET C GROUNDWATER MONITORING SYSTEM

1.	Number of wells in the approved monitoring plan.			
	a.	Shallowest well depth	ft.	
	b.	Deepest well depth	ft.	
	C.	Average well depth	ft.	
	d.	Number with dedicated pumps		
2.	Uni	nit cost to upgrade a well with a dedicated pump	\$/	well
3.		nit cost to install a well (including, drilling, installati d pump installation)		well
4.		umber of wells to be installed (wells in the approve ven't been installed	ed plan that	
5.		umber of wells to be replaced over the life of the miriod (use 10% of line 1 and round up)	nonitoring	
6.		umber of pumps to be replaced/repaired se 25% of line 1 over the monitoring period)		
7.		nit cost to purge and sample a well (include methatord keeping and shipping		well
8.	Uni	nit cost to analyze sample(s)		
	a.	Quarterly (25 PA Code §279.233)	\$/*	well
	b.	Annually (25 PA Code §279.233)	\$/	well
9.		nit cost to analyze data (includes review of lab QA		
	database input, form completion, statistical analysis and data review) \$.		well	
10.	10. Cost to purge, sample and analyze: quarterly(line 7 + line 8a + line 9)		\$/	well
11.		ost to purge, sample and analyze: annually ne 7 + line 8b + line 9)	\$/	well
12.	Nui	umber of years of sampling (+ time to close	ye)ye	ears

2540-FM-BWM0583 6/2005

13.	Cost Summary –Groundwater Monitoring System			
	a.	System upgrade ([line 1 – line 1d] x line 2)	\$	
	b.	Wells to be Installed (line 3 x line 4)	\$	
	C.	Wells to be replaced (line 3 x line 5)	\$	
	d.	Pumps to be replaced (line 2 x line 6)		
	e.	Cost of Quarterly Monitoring (line 1 x "4" x line 10 x line 12)	\$	
	f.	Cost of Annual Monitoring (line 1 x line 11 x line 12)	\$	
		Subtotal	\$	
	Adjustment for resampling, assessments, etc.			
	a. b. c.	Use 0% of subtotal if no assessments in last 2 yrs. Use 5% of subtotal if assessment in last 2 yrs. Use 10% if in assessment, abatement or increase monitoring	\$	
		Total (Place	\$	

Date Prepared	

I.D. Number	

BONDING WORKSHEET D OTHER MONITORING AND REPORTING

Please list the annual costs to maintain the following permits/registrations that apply. Additional space is provided for items applicable to your facility, but not listed.

	Total (sum of lines 1 to 10 x line 1	1) \$_ e this total on Summary Cost Wo	rkahaat lina
11.	Number of years of monitoring/maintenance (+ time to close)		years
10.	Other	\$	
9.	Other	\$	
8.	Other	\$	
7.	Other	\$	
6.	Other	\$	
5.	UST/AST registration	\$	
4.	Local permit or Host Agreement requirements	\$	
3.	Solid Waste Annual Report preparation cost	\$	
2.	NSPS Annual Report preparation cost	\$	
1.	Title V or other air permit (include the annual permit fee, cost to complete emissions inventory and emissions fees)	\$	

Date Prepared	

I.D. Number	

BONDING WORKSHEET E SUMMARY COST WORKSHEET

	SUMMARY COST WOR	KNOHEE	- I
Co	st Summary – Transfer Stations		
1.	Decontaminating the Facility		\$
2.	Surface Water Monitoring		\$
3.	Ground Water Monitoring		\$
4.	Other Monitoring		\$
5.	Other Costs ¹		\$
6.	Other Costs ¹		\$
	Subto	otal	\$
Infl	ation		
7.	Inflation rate (projected inflation for the next three years b the inflation for the prior three years).	ased on	%
8.	Inflation cost for facility (subtotal x line 7)		\$
Co	ntingency and administrative fees		
9.	Administrative fees (10%) (subtotal x 0.1)		\$
10.	Contingency fee amount (subtotal x rate of contingency fee from Table 1)		\$
	Total (subtotal + line 8 + line 9 +	line 10)	\$

¹ You should include any costs that would be incurred by the Department, but were not included in these sheets. Provide separate sheets for documentation.