

**BONDING WORKSHEETS
FOR
WASTE TRANSFER STATIONS**

Revised August 30, 2001

Date Prepared

September 11, 2020

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

I.D. Number

101323

**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:

Stage One: Notify all our haulers and customers of our intent to close.
Stage Two: Haul remainder of Municipal Solid Waste to Wayne Township Lanfill for disposal.
Stage Three: Begin cleaning and sanitizing of equipment and tipping floors.
Stage Four: Final cosmetics to permitted area, such as planting grass seed and reosion control.

1. Maximum volume of waste to be removed from storage, tipping floor and equipment.: (See Attached)	<u>900</u> CY
2. Unit cost to dispose of waste off-site (this should include, but not be limited to removal, transportation and disposal costs). (See Attached) (3CY = 1 ton) (\$45.00 per ton / 3 = \$15.00 per cy)	<u>\$15.00</u> \$/CY
3. Cost to decontaminate floors, scales, equipment (Based on Water Dept. Bulk Rate Fees and 2020 prevailing wage rates)	<u>\$629.60</u> LS
4. Volume of contaminated soils to be removed	<u>N/A</u> 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).	<u>N/A</u> \$/CY
6. Volume of wastewater generated during decontamination.	<u>5000</u> Gal
7. Unit cost to dispose of decontamination water (Total Budget Divided by total average annual flow expressed in gallons)	<u>\$0.03988</u> \$/Gal
8. Cost for facility maintenance: (Two employees, one week)	<u>\$3,148.00</u> LS
9. Engineering and QA/QC costs (See Attached)	<u>N/A</u> LS
10. Cost Summary	
a. Waste Removal (line 1 x line 2)	\$ <u>\$13,500</u>
b. Facility decontamination (line 3)	\$ <u>\$629.60</u>
c. Contaminated soils (line 4 x line 5)	\$ <u>\$0.00</u>
d. Wastewater disposal (line 6 x line 7)	\$ <u>\$39.88</u>
e. Maintenance (line 8)	\$ <u>\$3,148.00</u>
f. QA/QC (line 9)	\$ <u>\$0.00</u>

Total \$ \$17,317.48

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

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**BONDING WORKSHEET B
SURFACE WATER MONITORING**

Solid Waste Surface Water Sampling

- 1. Number of surface points monitored for Solid Waste Permit _____
- 2. Unit cost to sample a surface point (record keeping and shipping) _____ \$/point
- 3. Unit cost to analyze sample(s)
 - a. Quarterly (25 PA Code §279.233) _____ \$/point
 - b. Annually (25 PA Code §279.233) _____ \$/point
- 4. Unit cost to analyze data (includes review of lab QA/QC data, database input, form completion, and data review) _____ \$/point
- 5. Cost to sample and analyze: quarterly (line 2 + line 3a + line 4) _____ \$/point
- 6. Cost to sample and analyze: annually (line 2 + line 3b + line 4) _____ \$/point
- 7. Number of years of sampling (_____ time to close) _____ years

NPDES Surface Discharge Sampling

- 8. Number of outfalls monitored _____
- 9. Monitoring frequency (i.e. monthly, quarterly, etc) _____
- 10. Number of samples to be taken per point/year _____
- 11. Unit cost to sample a surface point (record keeping and shipping) _____ \$/point
- 12. Unit cost to analyze sample(s) (including data review and completing DMR) _____ \$/point
- 13. Number of years of sampling (_____ + time to close) _____ years
- 14. Cost 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 \$ N/A

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.
- c. Use 10% if in assessment, abatement or increased monitoring

Total \$ **N/A**

(Place this total on Summary Cost Worksheet – line 2)

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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. Unit cost to upgrade a well with a dedicated pump _____ \$/well
3. Unit cost to install a well (including, drilling, installation, developing and pump installation) _____ \$/well
4. Number of wells to be installed (wells in the approved plan that haven't been installed) _____
5. Number of wells to be replaced over the life of the monitoring period (use 10% of line 1 and round up) _____
6. Number of pumps to be replaced/repared (use 25% of line 1 over the monitoring period) _____
7. Unit cost to purge and sample a well (include methane monitoring, record keeping and shipping) _____ \$/well
8. Unit cost to analyze sample(s)
 - a. Quarterly (25 PA Code §279.233) _____ \$/well
 - b. Annually (25 PA Code §279.233) _____ \$/well
9. Unit cost to analyze data (includes review of lab QA/QC data, database input, form completion, statistical analysis and data review) _____ \$/well
10. Cost to purge, sample and analyze: quarterly (line 7 + line 8a + line 9) _____ \$/well
11. Cost to purge, sample and analyze: annually (line 7 + line 8b + line 9) _____ \$/well
12. Number of years of sampling (_____ + time to close) _____ years

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. Use 0% of subtotal if no assessments in last 2 yrs.
- b. Use 5% of subtotal if assessment in last 2 yrs.
- c. Use 10% if in assessment, abatement or increase monitoring \$ _____

Total \$ _____ **N/A**

(Place this total on Summary Cost Worksheet – line 3)

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**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.

- 1. Title V or other air permit (include the annual permit fee, cost to complete emissions inventory and emissions fees) \$ _____
- 2. NSPS Annual Report preparation cost \$ _____
- 3. Solid Waste Annual Report preparation cost \$ _____
- 4. Local permit or Host Agreement requirements \$ _____
- 5. UST/AST registration \$ _____
- 6. Other _____ \$ _____
- 7. Other _____ \$ _____
- 8. Other _____ \$ _____
- 9. Other _____ \$ _____
- 10. Other _____ \$ _____
- 11. Number of years of monitoring/maintenance (____+ time to close) _____ years

Total (sum of lines 1 to 10 x line 11) \$ **N/A**
(Place this total on Summary Cost Worksheet – line 4)

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**BONDING WORKSHEET E
SUMMARY COST WORKSHEET**

Cost Summary – Transfer Stations

1. Decontaminating the Facility	\$ <u> \$17,317.48</u>
2. Surface Water Monitoring	\$ <u> N/A</u>
3. Ground Water Monitoring	\$ <u> N/A</u>
4. Other Monitoring	\$ <u> N/A</u>
5. Other Costs ¹	\$ <u> N/A</u>
6. Other Costs ¹	\$ <u> N/A</u>
Subtotal	\$ <u> \$17,317.48</u>

Inflation

7. Inflation rate (projected inflation for the next three years based on the inflation for the prior three years). (Gross National Product)	<u> 6.02%</u>
8. Inflation cost for facility (subtotal x line 7)	\$ <u> \$1,042.51</u>

Contingency and administrative fees

9. Administrative fees (10%) (subtotal x 0.1)	\$ <u> \$1,731.75</u>
10. Contingency fee amount (subtotal x rate of contingency fee from Table 1)	\$ <u> \$2,164.69</u>

Total (subtotal + line 8 + line 9 + line 10) \$ \$22,256.43

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.