

**IT'S
CUT
AND
DRY.**

IFAD — A Division of O. H. Materials Corp.

**138 DECAL STREET
LAFAYETTE, LOUISIANA 70508
318/234-5264**

IFAD CAN DEWATER YOUR WASTE TO SAVE YOUR COMPANY MONEY. AND TIME. AND LONG-TERM LIABILITY.

Evaluating dewatering and solidification techniques for your wastes on a ton-for-ton or dollar-for-dollar basis can be confusing. Many companies seem to provide estimates which discourage bid comparison. However, **IFAD** firmly believes that we can provide the most cost-effective solution for dewatering your waste sludges. And we have provided a worksheet to help you prove it.

The attached worksheet can be completed with some very basic information about your sludge. But don't stop there. **IFAD will analyze a sample of your waste at no charge.** We will send you a full analytical report as well as a sample of the filter cake and effluent.

IFAD has had vast experience in the successful dewatering of hazardous and non-hazardous waste materials. IFAD has dewatered a variety of sludges including:

- Creosote Sludges
- Biological Treatment Sludge
- API Separator Sludges
- Calcium Chloride & Calcium Carbonate Sludges
- PCB Sludges
- Rubber Production Wastes
- Metal Hydroxide Sludges
- Oil and Water Based Drilling Muds
- Chlorinated Organic Sludges

The IFAD Division of O. H. Materials specializes in the dewatering of sludges that are difficult to treat. Furthermore, IFAD can assist you in recovering oily phases of an effluent for reuse or in the treatment of filtrate for direct discharge.

IFAD's proprietary pre-treatment methods can assist in the declassification of some filter cakes from hazardous to non-hazardous. This declassification can significantly reduce transportation and disposal costs as well as long-term liability. Dewatering and volume reduction are also logical pretreatments for wastes going to incineration.

IFAD maintains its professionalism without rigidity. We are always available and ready to assist our clients with special problems. Let us help you with your sludge problems.

IFAD — NOW YOU CAN BUY EXPERIENCE.

EXAMPLES

BASIS: The following example is based on the assumption that there are 5000 wet tons of sludge in situ with a solids content of 15%. Please note the significant savings on total cost at the higher level of volume reduction. Don't be misled by lower per ton costs!

BASIS: SLUDGE A: 5,000 WET TONS (in situ) AT 15% SOLIDS BY WEIGHT

5,000 TONS X 15% SOLIDS = 750 tons dry solids by weight

TREATMENT BY SOLIDIFICATION WITH KILN DUST

EXAMPLE: Using .5 lb. Kiln Dust Mix Ratio/per lb. of sludge.

SOLIDIFICATION COST:

DUST	2500 tons @ \$ 20/ton	\$ 50,000.00
MIX	7500 tons @ 10/ton	75,000.00
TRANSPORT	7500 tons @ 30/ton	225,000.00
DISPOSAL	7500 tons @ 100/ton	750,000.00
DISPOSAL TAX	7500 tons @ 12/ton	90,000.00

TOTAL COST: SOLIDIFICATION \$1,190,000.00

TREATMENT BY BELT PRESS OR CENTRIFUGE TYPE DEWATERING

EXAMPLE: Cake Produced = 35% Dry Solids By Weight

DEWATERING COST — BELT PRESS OR CENTRIFUGE TYPE:

5,000 wet tons in situ x 15% solids = 750 tons dry solids by weight (TDS)

FORMULA: 750 TDS ÷ 35% = 2143 Tons Cake Produced for Disposal

BELT OR

CENTRIFUGE DEWATERING	2143 tons @ \$ 60/ton	\$128,580.00
TRANSPORTATION	2143 tons @ 30/ton	64,290.00
DISPOSAL	2143 tons @ 100/ton	214,300.00
DISPOSAL TAX	2143 tons @ 12/ton	25,716.00

TOTAL COST: BELT PRESS/CENTRIFUGE DEWATERING \$432,886.00

TREATMENT BY IFAD'S RECESSED CHAMBER DEWATERING

EXAMPLE: IFAD'S Cake Produced = 65% Dry Solids By Weight

DEWATERING COST — IFAD'S RECESSED CHAMBER PLATE & FRAME FILTER PRESS:

5000 wet tons sludge in situ X 15% solids = 750 tons dry solids by weight (TDS)

FORMULA: 750 TDS ÷ 65% = 1154 Tons Cake Produced for Disposal

IFAD Dewatering (Average Price)	1154 tons @ \$ 80/ton	\$ 93,320.00
TRANSPORTATION	1154 tons @ 30/ton	34,620.00
DISPOSAL	1154 tons @ 100/ton	115,400.00
DISPOSAL TAX (estimate)	1154 tons @ 12/ton	13,848.00

TOTAL COST: IFAD'S RECESSED CHAMBER PLATE & FRAME DEWATERING \$257,188.00

IFAD WILL CONTRACTUALLY COMMIT TO A SPECIFIED PER CENT SOLIDS CAKE.

IFAD'S CAKE WILL HAVE A COMPRESSIVE STRENGTH OF >2 TONS/SQUARE FOOT.

DEWATERING & SOLIDIFICATION WORKSHEET

DEWATERING

_____ X _____ % = _____ tons dry solids (TDS)
 Wet tons of sludge in-situ solids

TDS — _____ % dry solids by weight in cake * = _____ tons of cake produced

_____	Tons of cake x \$ _____	ton/processing	= \$ _____
_____	Tons of cake x \$ _____	ton/disposal	= \$ _____
_____	Tons of cake x \$ _____	ton/transportation	= \$ _____
_____	Tons of cake x \$ _____	ton/haz. waste tax	= \$ _____
Total Dewatering Cost: \$			_____

DEWATERING

_____ X _____ % = _____ tons dry solids (TDS)
 wet tons of sludge in-situ (WTS) solids

TDS — _____ % dry solids by weight in cake * = _____ tons of cake produced

_____	Tons of cake x \$ _____	ton/processing	= \$ _____
_____	Tons of cake x \$ _____	ton/disposal	= \$ _____
_____	Tons of cake x \$ _____	ton/transportation	= \$ _____
_____	Tons of cake x \$ _____	ton/haz. waste tax	= \$ _____
Total Dewatering Cost: \$			_____

SOLIDIFICATION _____ Kiln Dust Mix Ratio

_____ x _____ Kiln Dust Mix Ratio = _____ tons of Kiln Dust needed
 wet tons sludge

_____	tons KD needed x \$ _____	ton kiln dust	= \$ _____
_____	tons KD + _____ wet tons sludge x \$ _____	ton disposal	= \$ _____
_____	tons KD + _____ wet tons sludge x \$ _____	ton transportation	= \$ _____
_____	tons KD + _____ wet tons sludge x \$ _____	ton mixing	= \$ _____
_____	tons KD + _____ wet tons sludge x \$ _____	ton haz. waste tax	= \$ _____
Total Solidification Cost: \$			_____

*Note: Must be % dry solids *by weight* to effect an equal basis for comparison.

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