



MUDWIZARD  **RD**®

PRODUCT

CATALOGUE

*MUD TREATMENT
SYSTEM*

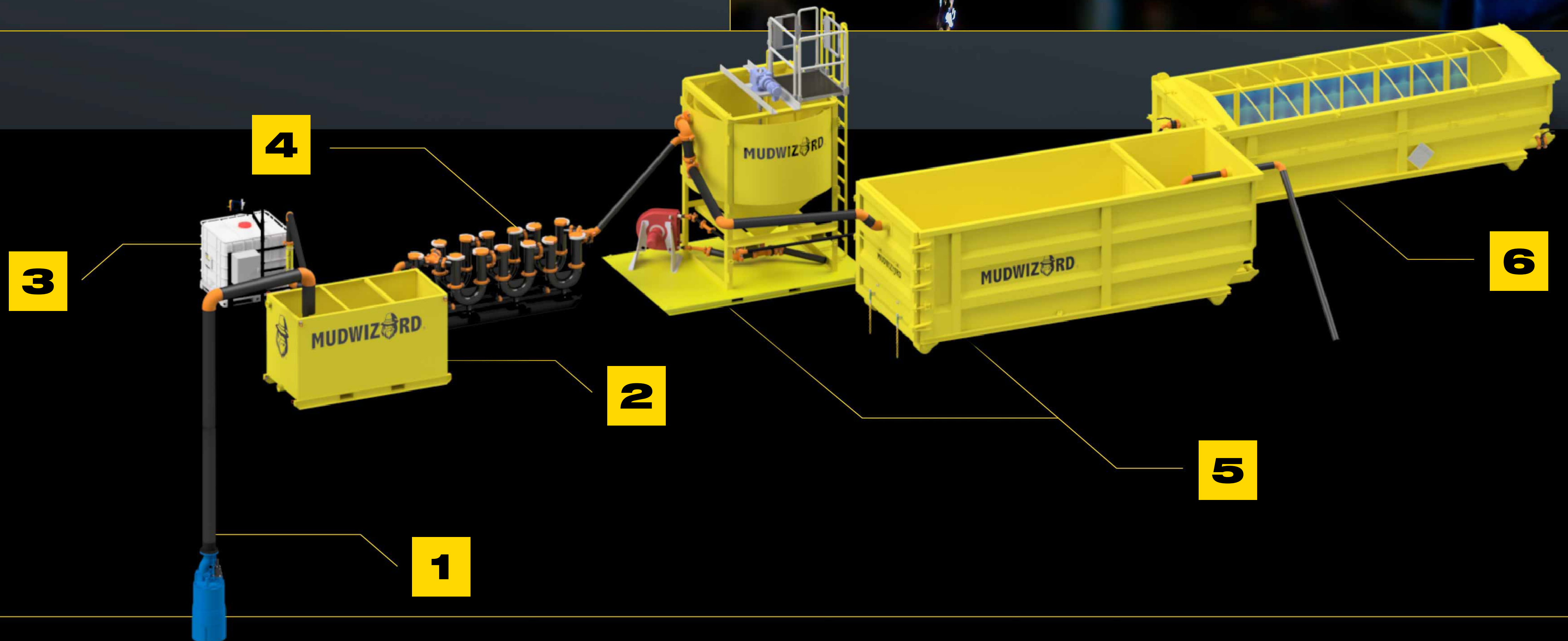
MUDWIZARD.COM



PRODUCT CATALOGUE

STEPS IN THE SLUDGE TREATMENT PROCESS

THIS DOCUMENT IS A REFERENCE DOCUMENT FOR EXCHANGING, EVALUATING, AND SELECTING THE BEST SLUDGE TREATMENT SOLUTIONS BASED ON YOUR NEEDS. IT INCLUDES STANDARD EQUIPMENT FROM THE MUDWIZARD PRODUCT RANGE AND PRODUCT SPECIFICATIONS. THE TREATMENT PROCESS IS BROKEN DOWN INTO SEVERAL STEPS NORMALLY IMPLEMENTED IN A CONFIGURATION. DEPENDING ON THE SITUATION, SOME STEPS MAY NOT BE REQUIRED. WE RECOMMEND THAT YOU CONTACT A MUDWIZARD PRODUCT SPECIALIST WHO CAN HELP YOU ASSESS YOUR NEEDS.





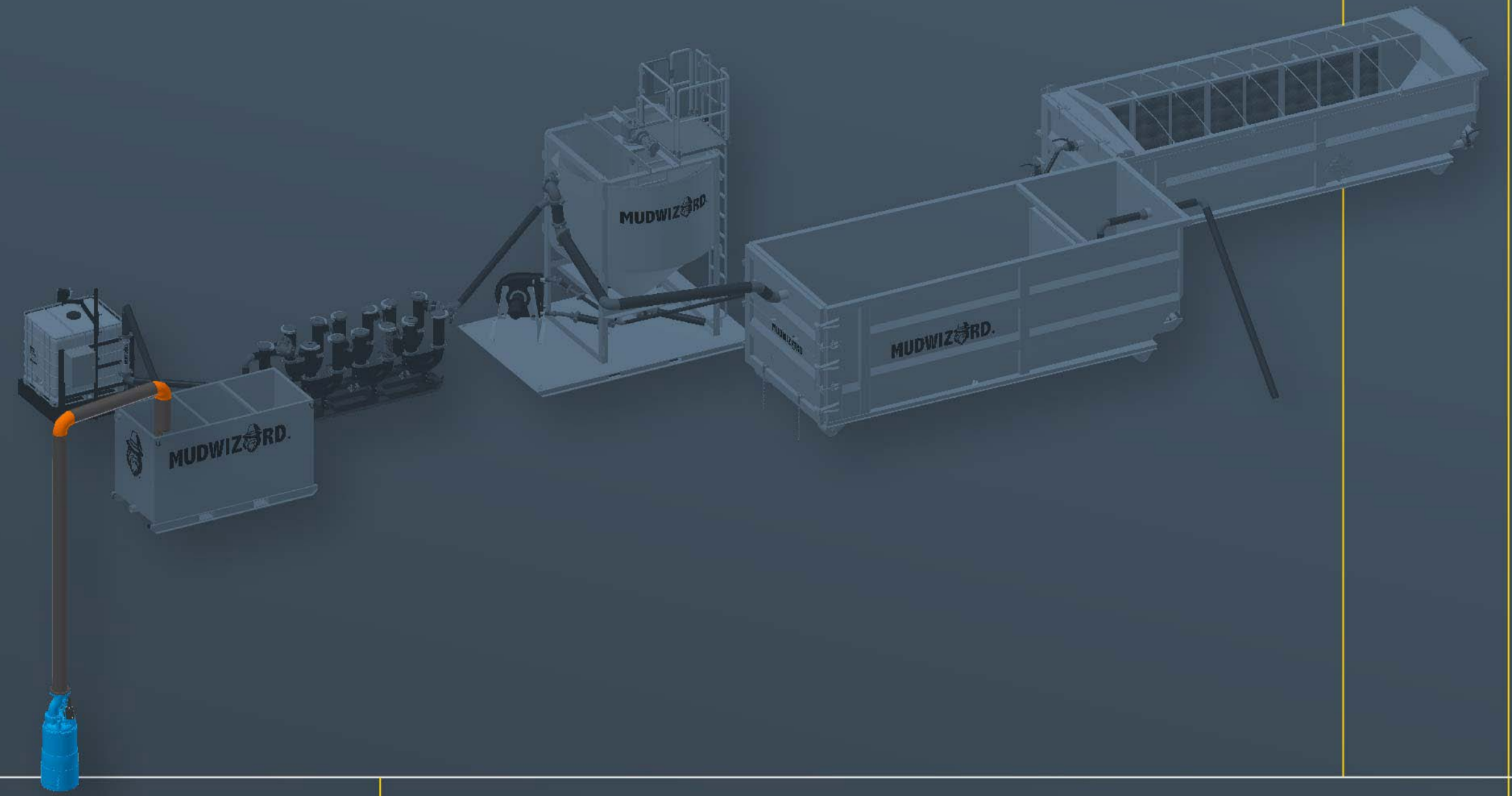
STEP

1

PUMPING AND MUD COLLECTION

RECOVERY OF WASTEWATER SLUDGE FROM OPERATIONS TO SEDIMENTATION OR CONDITIONING TANKS OR DIRECTLY TO THE MUDWIZARD SLUDGE TREATMENT UNIT.

MUDWIZARD OFFERS A RANGE OF PRODUCTS AND EXPERTISE TO HELP YOU SELECT PUMPS FOR MUD COLLECTION AND PUMPING THAT MEET YOUR SPECIFIC OPERATIONAL NEEDS.



TSURUMI - LB SERIES

Powerful pump made with durable materials and designed for easy handling. The top-discharge design ensures maximum motor cooling, enabling continuous operation at low levels and extended dry-run capacity.



TSURUMI - GPN SERIES

Ideal for slurry, quarry and gravel pit drainage. Abrasive resistant metals and slow tip speed offer long wear life. Water cooling jacket around the motor allows pump to remain cool even in low water pumping conditions.



TSURUMI - KRS SERIES

The cast-iron construction of this series extends product life by preventing premature wear and failure from the abrasive materials found in mining, aggregate, and construction applications. Available in a variety of discharge sizes and horsepower, they are designed to withstand the most rigorous situations.



TSURUMI - KTZ SERIES

Designed to withstand the most demanding conditions, including the abrasive waters of construction, aggregate, and mining dewatering. Each pump model can switch from high head to high volume performance by simply changing the impeller and wear plate, increasing versatility.

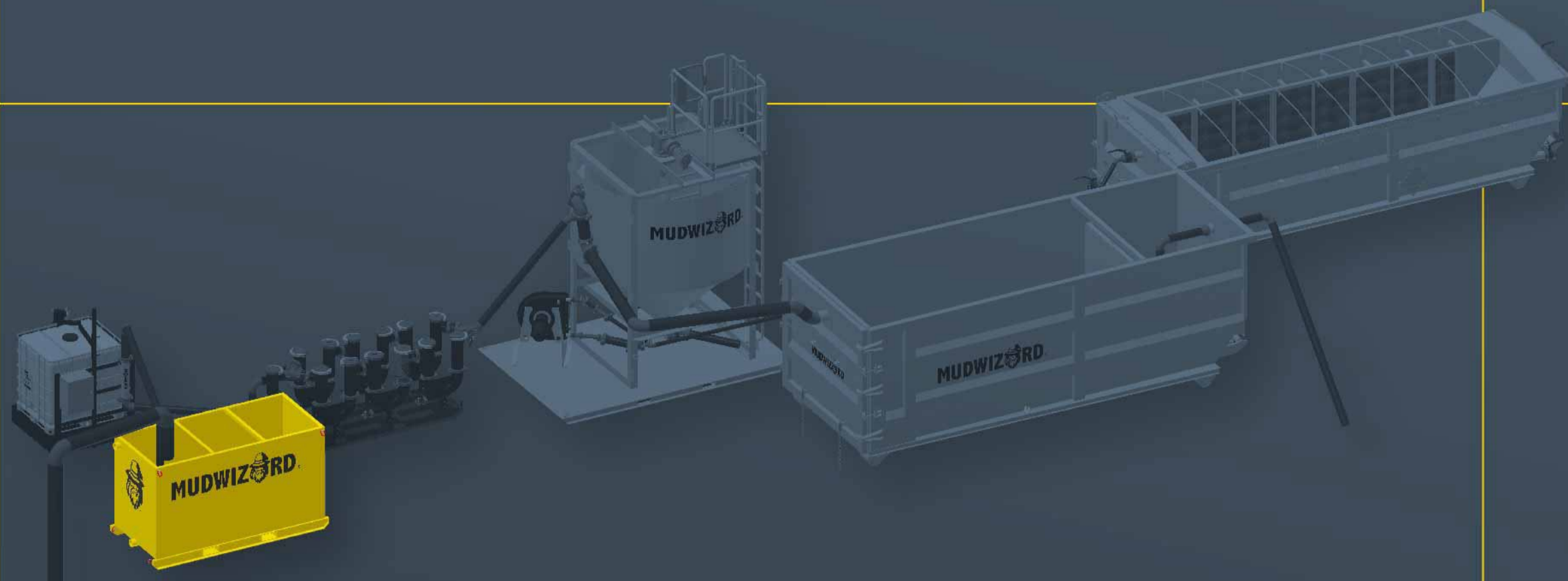


DRAGFLOW PRODUCTS

Dragflow submersible pumps with an agitator for abrasive mixtures are industry leaders because of their unrivalled strength. Their quality makes them indispensable in the dredging field, but also in the industrial sector, mining and for custom projects. They are available in electric and hydraulic models in small, medium, and large sizes.



SLUDGE CONDITIONING AND AGITATION TANK



SLUDGE IS PREPARED THROUGH CONTROLLED AGITATION, WHICH HOLDS PARTICLES IN SUSPENSION TO STABILIZE THE SLUDGE FOR TREATMENT. THIS SYSTEM CONFIGURATION ALLOWS FOR SEQUENTIAL PROCESSING WHEN THERE IS NOT ENOUGH FLOW FOR CONTINUOUS PROCESSING.

SLUDGE CONDITIONING TANK

DESCRIPTION

Sludge conditioning tanks keep particles in suspension and ensure optimal performance during treatment. Their size and volume can be made to measure. These tanks are ideal for operations with large variations in flow rates such as sequential treatment processes. They are mobile and can be placed upstream or downstream of the treatment facility. A series of reservoirs allow for higher volumes of water to be managed and for a quicker settling time, optimizing the end result. The addition of 2 underflow/overflow baffles also optimizes settling.



SPECIFICATIONS

MUDWIZARD CONDITIONING CONTAINER

DIMENSIONS
279 CM X 124 CM X 155 CM
(110" X 49" X 61")

WEIGHT
771 KG (1,700 LBS)

VOLUME
4,15 M³ (1,096 GAL)

INPUTS AND OUTPUTS
(4") VICTAULIC
ENTRIES
FOR FORKS AND LIFTING RINGS

OPTIONS

- CUSTOM DIMENSIONS ACCORDING TO SPECIFICATIONS
- CAMLOCK INPUTS AND OUTPUTS
- 2 UNDERFLOW/OVERFLOW BAFFLES
- FLOW METER WITH TOTALIZER
- TURBIDIMETER

TECHNOAGITATOR PUMP

DESCRIPTION

Robust, submersible and easy to use, this pump is ideal for agitating water basins where there is sediment bed formation. The positioning of the 3 nozzles creates a vortex effect that is highly efficient in sumps and tanks. It offers good abrasion resistance.



SPECIFICATIONS

RAYON
10-METRE RADIUS =
89% DENSITY

20HP

575 V

3 PHASES

50-FOOT ELECTRICAL CABLE

OPTIONS

- MULTI-OUTLET DUCTS CAN BE ADDED TO DIRECT A JET TO A SPECIFIC PLACE OR TO INCREASE THE AGITATION RADIUS.



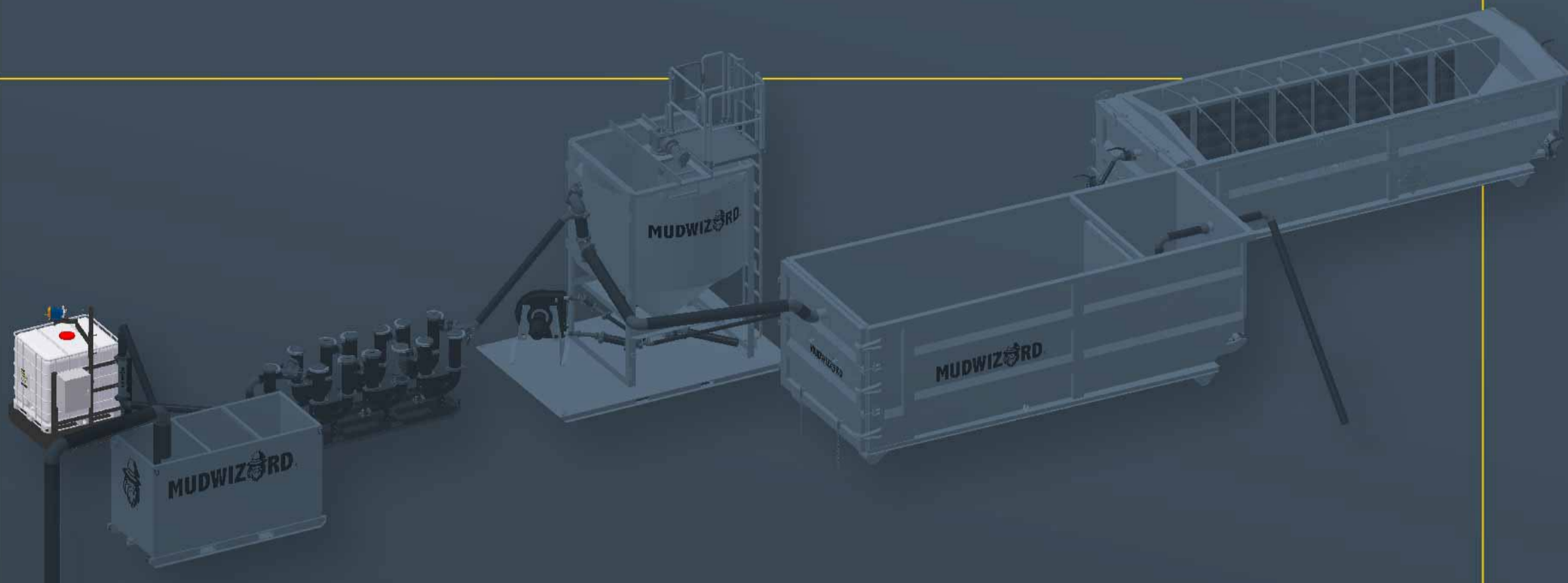


STEP

3

LIQUID INJECTION

BY DOSING PUMP AND PH CONTROL



INJECTION OF A LIQUID SOLUTION ACCORDING TO SPECIFIC NEEDS. THIS STEP ALLOWS PH MANAGEMENT TO REACH ACCEPTABLE DISCHARGE STANDARDS WHILE IMPROVING FLOCCULATION BY APPLYING A COAGULANT FOR SUPERIOR SEPARATION RESULTS.

LIQUID DOSING UNIT

DESCRIPTION

Liquid dosing system with a variable flow dosing pump. This unit is used for coagulation and pH management according to acceptable discharge standards. The applied coagulant, selected based on laboratory analyses, accelerates the separation and decanting process of solid particles. The unit's airtight base allows a certain volume of liquid to be recovered in the event of an accidental spill.



SPECIFICATIONS

DIMENSIONS

121 CM X 160 CM X 223 CM
(48" X 63" X 88")

WEIGHT

508 KG (1,121 LB)

DOSING PUMP

64 L/H

TRANSPORT PLATFORM

ADAPTED FOR 1,000 L HEAD TANK AND A 113 L DRUM.

AIRTIGHT BASE IN CASE OF ACCIDENTAL SPILL

INLINE STATIC MIXER

FLOW SWITCH

CONTROL PANEL

120 V POWER SOURCE

OPTIONS

DOSING PUMP 17 L/H

AUTOMATIC PH CONTROL SYSTEM

MUDWIZARD LIQUID COAGULANT COA/PH-

DESCRIPTION

COA/PH- coagulant is used to accelerate the separation and settling of solids during processing in addition to hydrocarbon settling. It increases the efficiency of the Mudwizard range of flocculant tablets and is used for pH management that meets acceptable discharge standards.



SPECIFICATIONS

1,000 L HEAD TANK OR 113 L DRUM

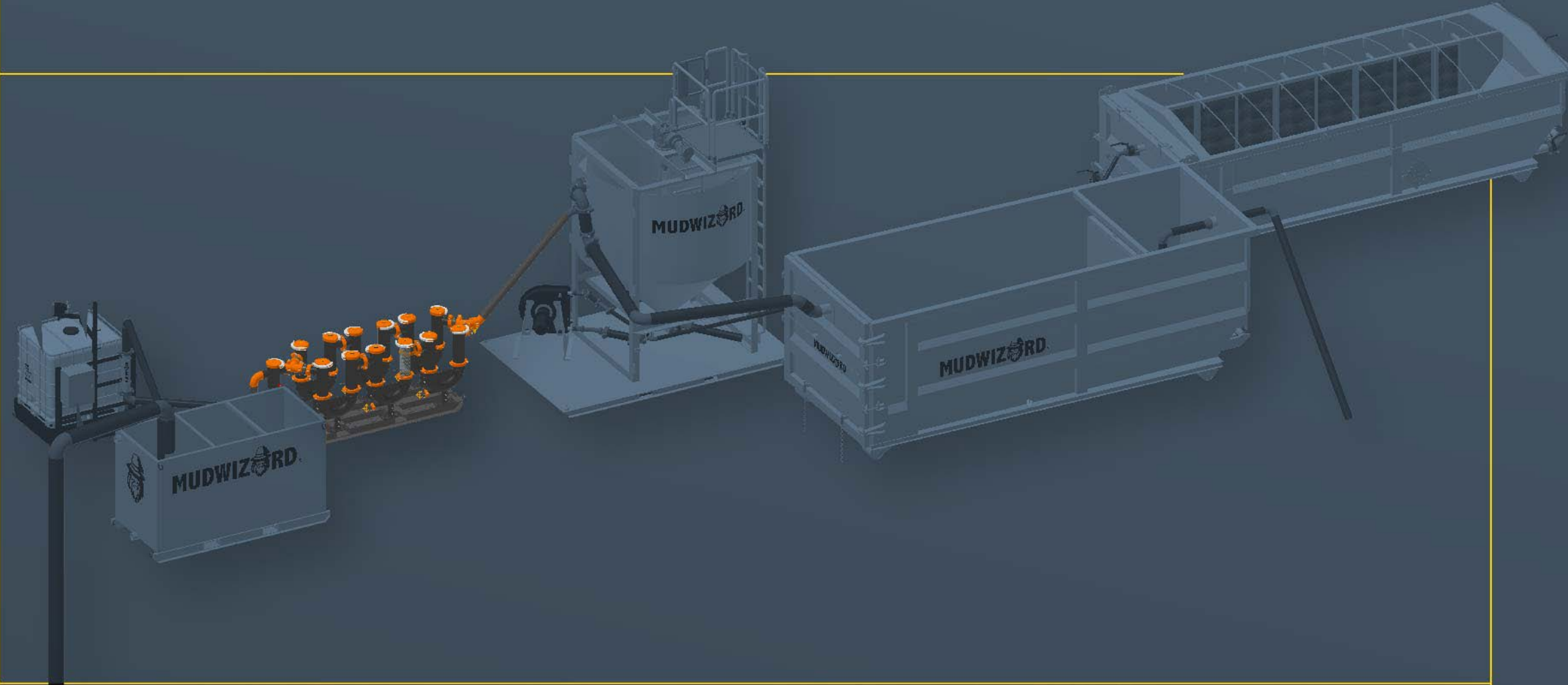
SAFETY DATA SHEET ON REQUEST



STEP

4

TABLET DOSING UNIT



TABLET ADAPTED TO YOUR MUD TYPE
 ECOLOGICAL: 100% ORGANIC AND NON-TOXIC
 EASY TO USE

FLOCCULANT TABLETS ARE USED TO DECANT SLUDGE PARTICLES IN THE WATER, EFFECTIVELY SEPARATING SOLIDS FROM LIQUIDS.

INNOVATIVE DOSING SYSTEM USING PATENTED MUDWIZARD TABLETS, SPECIALLY DEVELOPED FOR MINERAL SLUDGE. UNIQUE ON THE MARKET, IT OFFERS MANY ADVANTAGES INCLUDING SIMPLICITY, USE ON CONSTRUCTION SITES BY UNQUALIFIED OPERATORS, AND A REDUCED ENVIRONMENTAL FOOTPRINT.

ASSEMBLED ON PLATFORMS, THESE DOSING UNITS ARE EASY TO HANDLE AND TRANSPORT TO CONSTRUCTION SITES. THIS FEATURE ALLOWS SPECIFIC CONFIGURATIONS TO BE MADE ACCORDING TO THE NEEDS OF EACH OPERATION. THE MODULARITY OF THE UNITS MAKES IT POSSIBLE TO OPERATE IN SMALL SPACES AND MANAGE THE FLOW RATES REQUIRED WITH SEVERAL PARALLEL UNITS.

LABORATORY ANALYSES ALLOW FOR PRECISE DOSING, PRODUCT ENGINEERING, AND SYSTEM CONFIGURATION.

MUDWIZARD FLOCCULANTS

DESCRIPTION

For more than ten years, Mudwizard has been developing a range of polymers dedicated to mineral sludge. The patented Mudwizard dosing platforms work with tablets for easy handling and transport. The tablets are manufactured in our production plant, allowing us to control product quality. In addition, our laboratories can develop formulas that are tailored to the needs of our customers.

SPECIFICATIONS

SPECIFICALLY FOR MINERAL SLUDGE
 ORGANIC AND NONTOXIC
 AUTONOMOUS DOSAGE
 EASY TO HANDLE AND CARRY
 NEUTRAL PH, SAFE FOR WORKERS
 1 TABLET CAN TREAT UP TO 75,000 LITRES WITH A DOSE OF 1 PPM

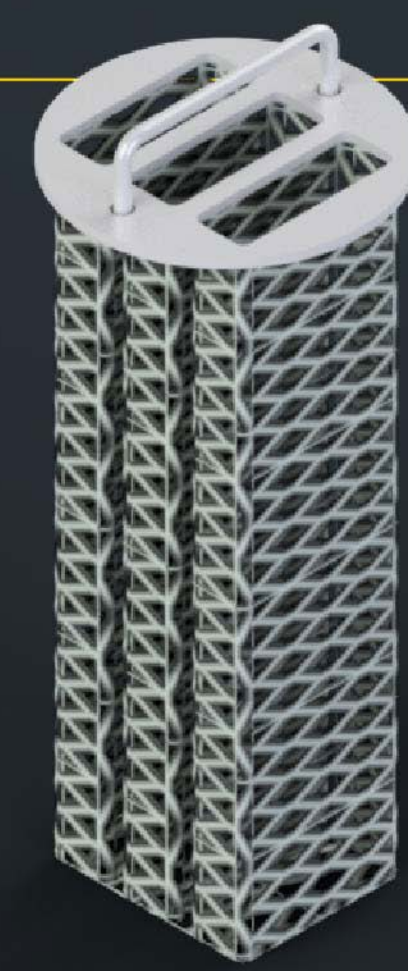


FORMAT
15 KG



TABLET DOSAGE UNIT

THE RANGE OF DOSING UNITS IS MADE OF SCHEDULE 40 STEEL PIPE, THE BASKETS ARE MADE OF 304 GRADE STAINLESS STEEL AND VICTAULIC SNAP-JOINT COUPLINGS.



DISSOLVER BASKET
(3, 6 & 8 INCHES)



50-150 GPM



150-800 GPM



800-1,600 GPM

OPTIONS

- STAINLESS STEEL (304 GRADE) CONSTRUCTION
- 4" / 8" / 10" SCREENS
- INLINE AGITATORS
- QUICKVIC COUPLING
- CAMLOCK INPUTS AND OUTPUTS

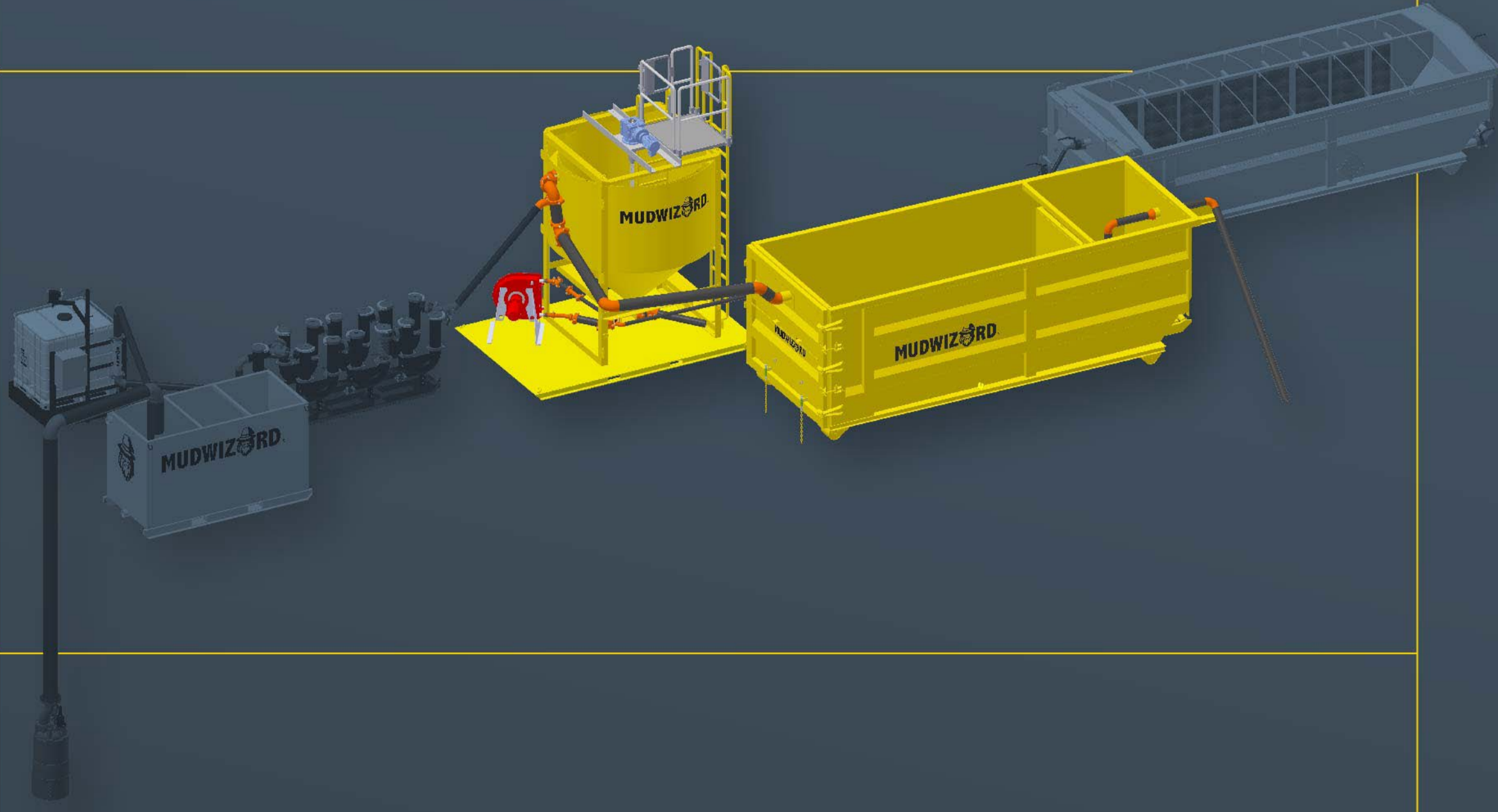
SPECIFICATIONS

UNIT	DIMENSIONS	WEIGHT	FLOW RATE	NUMBER OF BASKETS	TABLET LOADING CAPACITY	MAXIMUM DOSING CAPACITY	INLET AND OUTLET	STRAINER OPTIONS	DRAINAGE LINES
50-150	96 x 24 x 45 in 244 x 61 x 114 cm	760 lb 345 kg	50-150 USGPM 11-34 CHM	8	36	4 PPM	3 in 7,62 cm	4 in 10,16 cm	2 in 5,08 cm
150-800	131 x 31 x 50 in 333 x 79 x 127 cm	2300 lb 1043 kg	150-800 USGPM 34-182 CHM	6	192	3 PPM	4 in 10,16 cm	8 in 20,32 cm	2 in 5,08 cm
800-1600	158 x 33 x 42 in 401 x 84 x 107 cm	2388 lb 1083 kg	800-1600 USGPM 182-363 CHM	6	288	3 PPM	6 in 15,24 cm	10 in 25,4 cm	2 in 5,08 cm



STEP

5 SETTLING TANK AND ROLL-OFF BASINS



THIS STEP ALLOWS SLUDGE PARTICLES TO SETTLE AS QUICKLY AS POSSIBLE FOLLOWING COAGULATION AND/OR FLOCCULATION, IN COMPLIANCE WITH DISCHARGE STANDARDS. TANKS AND BASINS MUST BE DESIGNED TO PROMOTE OPTIMAL FLOW FOR SETTLING. THIS STAGE ALLOWS FOR SEVERAL POSSIBLE CONFIGURATIONS FOR THE SUBSEQUENT MANAGEMENT OF GENERATED SLUDGE.

MUDWIZARD OFFERS A SPECIALLY DESIGNED SETTLING TANK FOR OPTIMUM PERFORMANCE IN A TEN-MINUTE WINDOW. EASILY ADAPTED TO SPECIFIC REQUIREMENTS, IT IS EASY TO MAINTAIN AND ALLOWS HIGH FLOW PROCESSING IN A SMALL SPACE. THE TANK IS EQUIPPED WITH RAKES FOR INCREASING SLUDGE CONCENTRATION. PERISTALTIC PUMPS MANAGE AND TRANSPORT SLUDGE TO A SELECTED DESTINATION. MODULAR LADDERS, WALKWAYS, AND GUARDRAILS PROVIDE SAFE ACCESS DURING OPERATIONS. MUDWIZARD ALSO OFFERS A RANGE OF STANDARD ROLL-OFF BASINS DESIGNED FOR THE SPECIFIC NEEDS OF DIFFERENT OPERATIONS.

SETTLING TANK 0-45M³ 0-200 GPM

DESCRIPTION

This settling tank combines engineering with chemical expertise to ensure maximum settling results. The clarified water remaining after settling is removed through an overflow system, either for disposal or recirculation. The remaining sludge underflow is pumped from the tank. The modularity of these units makes it possible to process the required volumes, without limitation.



SPECIFICATIONS

DIMENSIONS
254 CM X 254 CM X 335 CM
(100" X 100" X 132")

WEIGHT
2,359 KG (5,200 LB)

MAXIMUM FLOW RATE
45 M³ /H (200 GPM)

VOLUME
8,8 M³ (2,325 GAL)

FABRICATION
MADE FROM SCHEDULE 40 STEEL PI

OVERFLOW
15,24 CM (6") VICTAULIC

UNDERFLOW
10,16 CM (4") VICTAULIC

POWER SOURCE
575 VOLTS

PERISTALTIC PUMP
AFX40

PLATFORM DIMENSIONS
244 CM X 366 CM (96" X 144")

CONTROL PANEL

RAKE

DOUBLE WALL

SAFETY LADDER

OPTIONS

- SAFETY PLATFORM
- OPTIONAL 240 V POWER SUPPLY
- PLASTIC CORROSION TANK

ROLL-OFF WATERTIGHT SETTLING BASINS

DESCRIPTION

Waterproof basin with separator wall to decant treated sludge. This roll-off basin allows for several operations, such as transport and movement, and facilitates sludge management. This unit is equipped with a tilting rear door.

SPECIFICATIONS

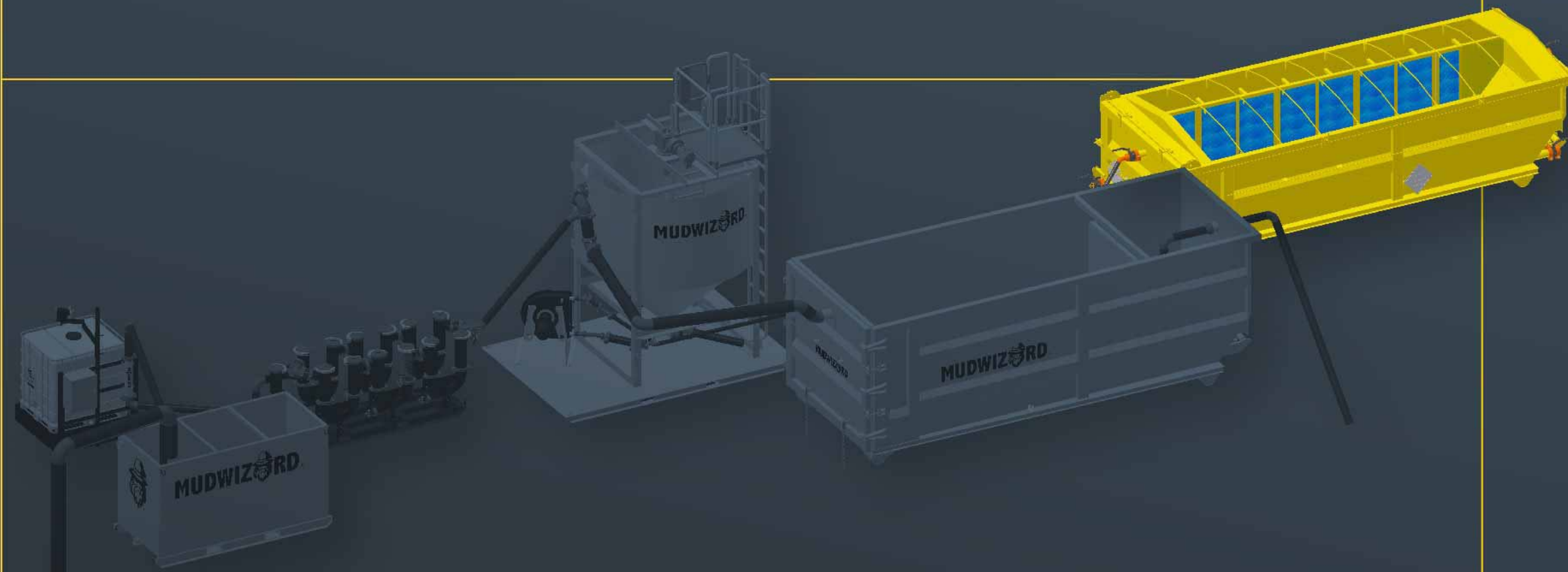
DIMENSIONS
645 CM X 256 CM X 216 CM
(254" X 101" X 85")

WEIGHT
3,039 KG (6700 LB)

MAXIMUM VOLUME
24 M³ (6,340 GAL)



SECOND DEWATERING AND SLUDGE THICKENING UNIT

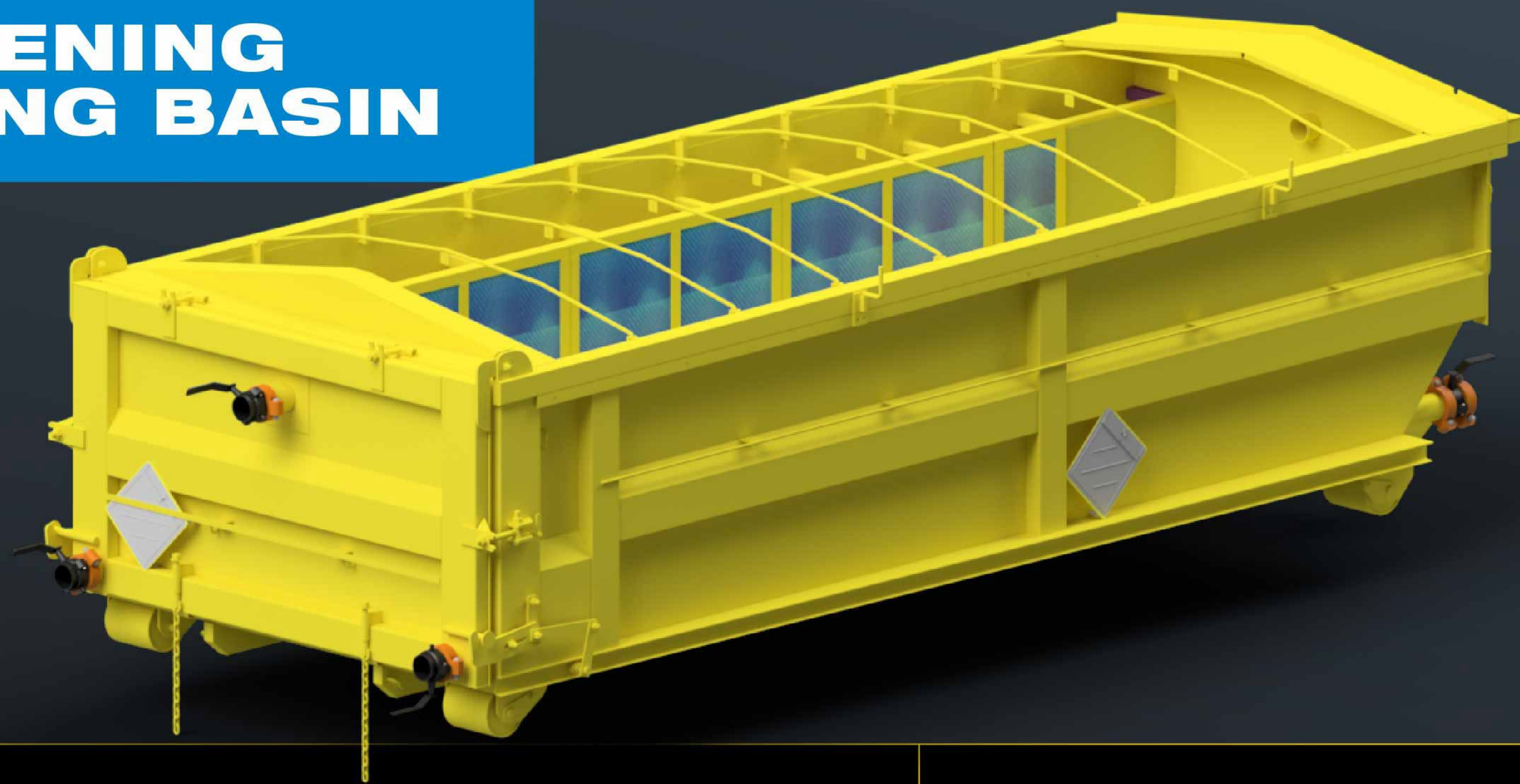


THIS STEP CONSISTS OF PERFORMING A SECOND DEWATERING OF THE SLUDGE RECOVERED IN THE PREVIOUS STEPS IN ORDER TO OBTAIN MORE CONSISTENT SLUDGE IN SOLID PERCENTAGE, ALLOWING SIMPLIFIED HANDLING AND COST SAVINGS DURING THE TRANSPORT AND TREATMENT OF MATERIALS.

SLUDGE-THICKENING AND DEWATERING BASIN

DESCRIPTION

Sludge-thickening and dewatering basin equipped with membrane filtration walls. Walls can accommodate any type of membrane filters. This roll-off basin allows for several operations, like transportation and access, and facilitates sludge management. This unit is equipped with a tilting rear door.



SPECIFICATIONS

DIMENSIONS

635 CM X 256 CM X 178 CM
(250" X 101" X 70")

WEIGHT

3,085 KG (6,800 LB)

MAXIMUM VOLUME

11 M³ (2,905 GAL)

FILTERING WALL

PERMEABILITY 340 CFM

OPTIONS

■ TYPE OF FILTER MEMBRANE ACCORDING TO REQUIRED SPECIFICATIONS



INSTRUMENTATION

THE MUDWIZARD SOLUTION CAN INTEGRATE ALL TYPES OF INSTRUMENTATION REQUIRED BY THE CUSTOMER'S NEEDS. THIS INTEGRATION IS SPECIFIC TO EACH PROJECT.

1

FLOW METER WITH TOTALIZER

2

TURBIDIMETER

3

PH PROBE

4

MUD-LEVEL SENSOR

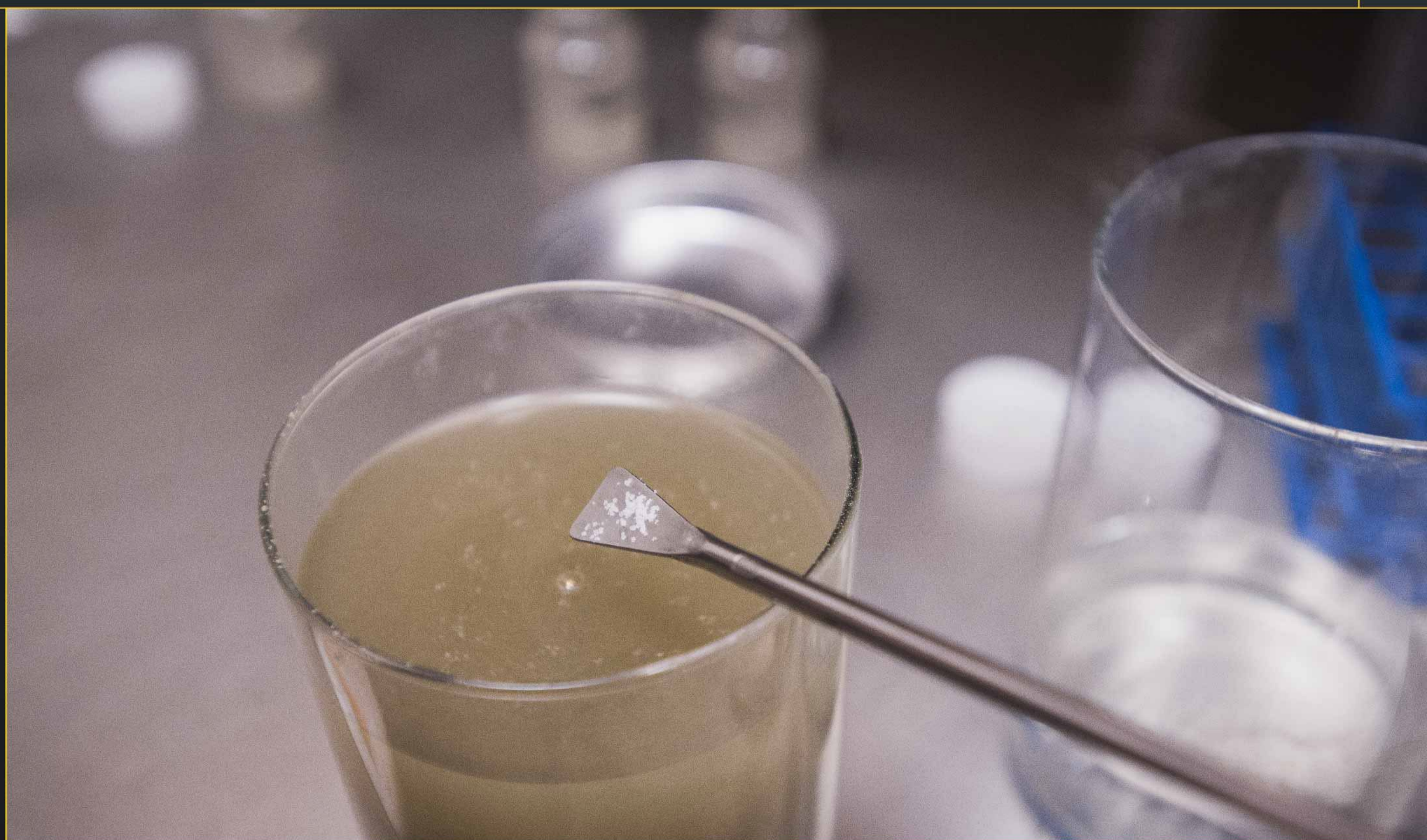
ON-SITE TECHNICAL SERVICES

OUR MUDWIZARD TEAM OFFERS START-UP SERVICES AND TECHNICAL SUPPORT FOR YOUR CONSTRUCTION OPERATIONS. FEE GRID ON REQUEST.



LABORATORY SERVICES

MUDWIZARD ALSO OFFERS FREE FIRST-TIME TESTING AND ANALYSIS OF YOUR SLUDGE IN OUR ROUYN-NORANDA LABORATORY. A DETAILED REPORT WILL BE PREPARED TO OPTIMIZE SYSTEM CONFIGURATION.



TEST YOUR MUD

OUR LABORATORY EXPERTS CAN TEST THE MUDWIZARD PRODUCT RANGE ON A SAMPLE OF YOUR MUD, AT NO COST OR OBLIGATION TO YOU. TEST RESULTS WILL BE COMMUNICATED IN A DETAILED REPORT.



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