AngloAmerican

Establishing QAQC protocols for reliable geometallurgical modelling in bulk commodities

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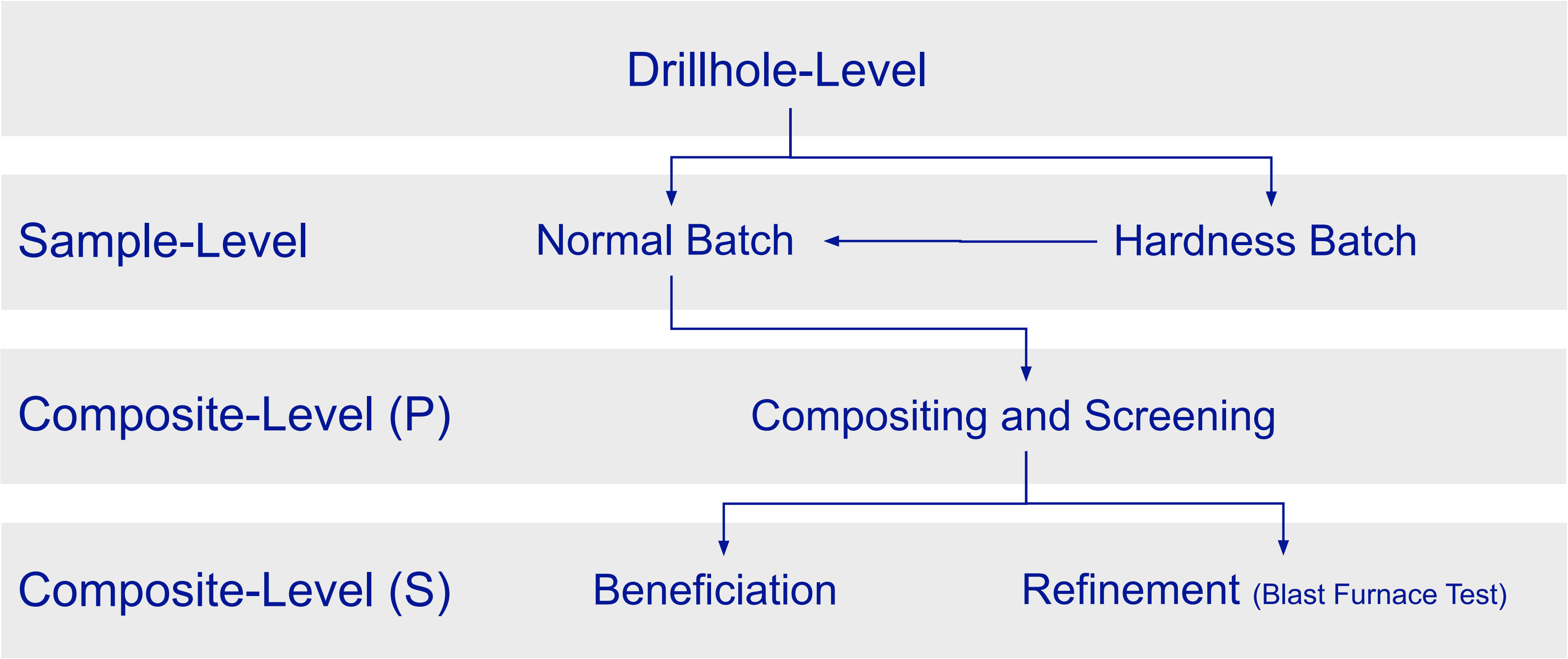
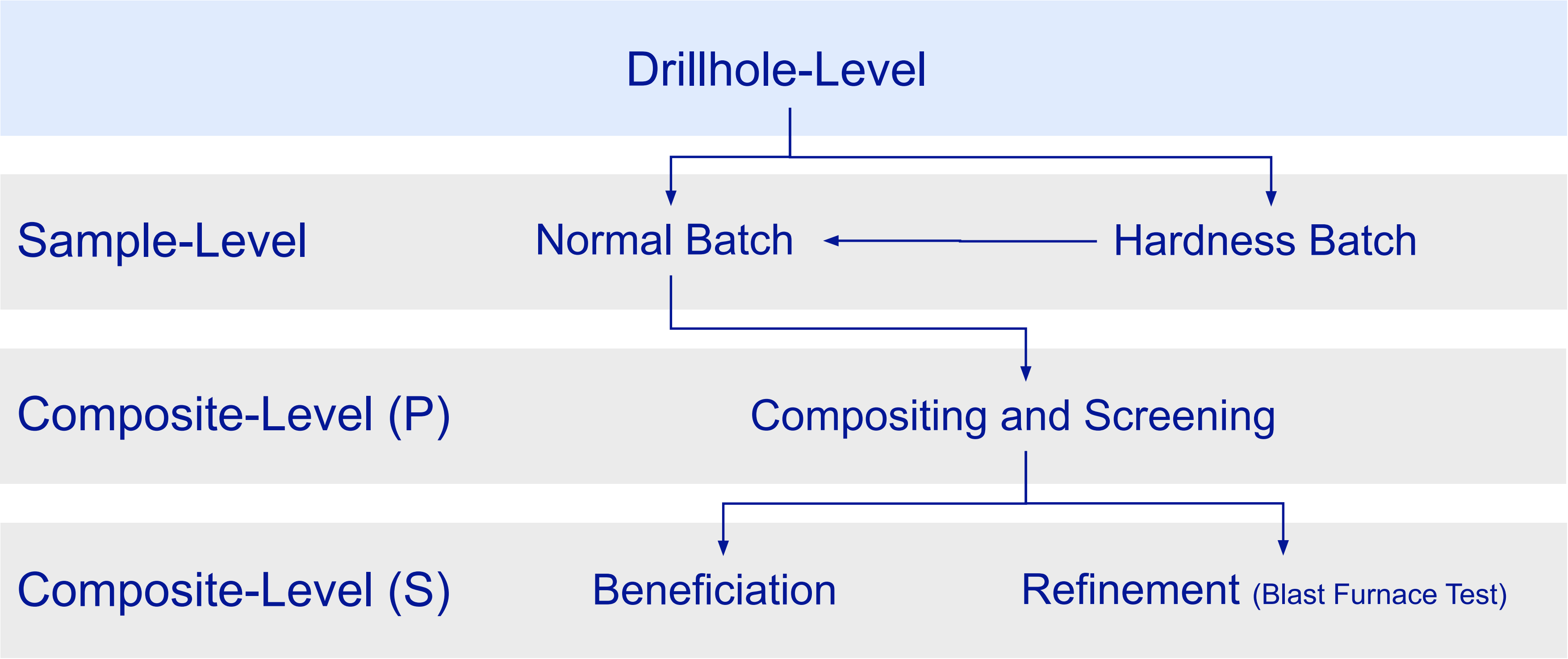
Why was a Geomet QAQC Protocol Critical?

- Forms part of our routine tasks
- Expensive, limited data with a 6month turn-around
- **Representative data required to inform:**
  - Long-Term Marketing Strategies
  - Short-Term Drill & Blast
  - Beneficiation Characterisation to define Resource and Reserves

Levels of QAQC



Levels of QAQC

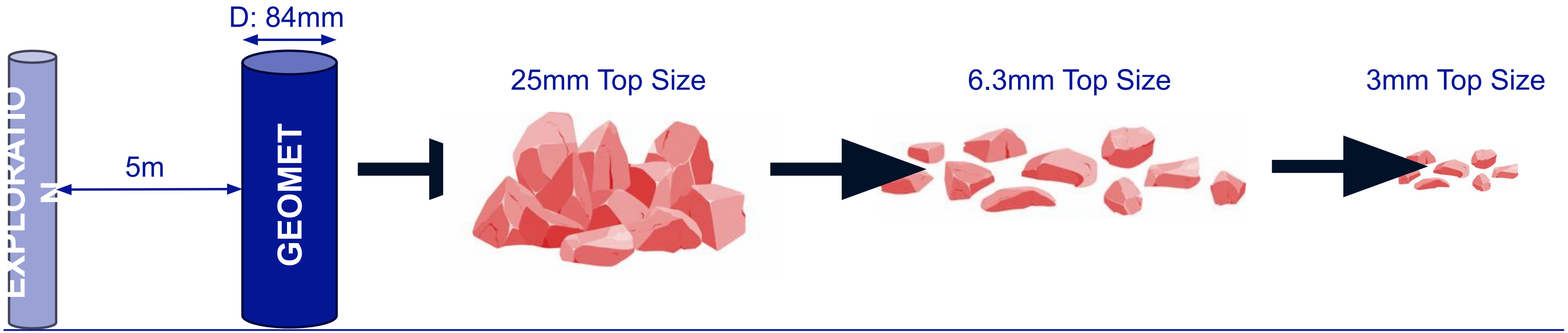


Levels of QAQC

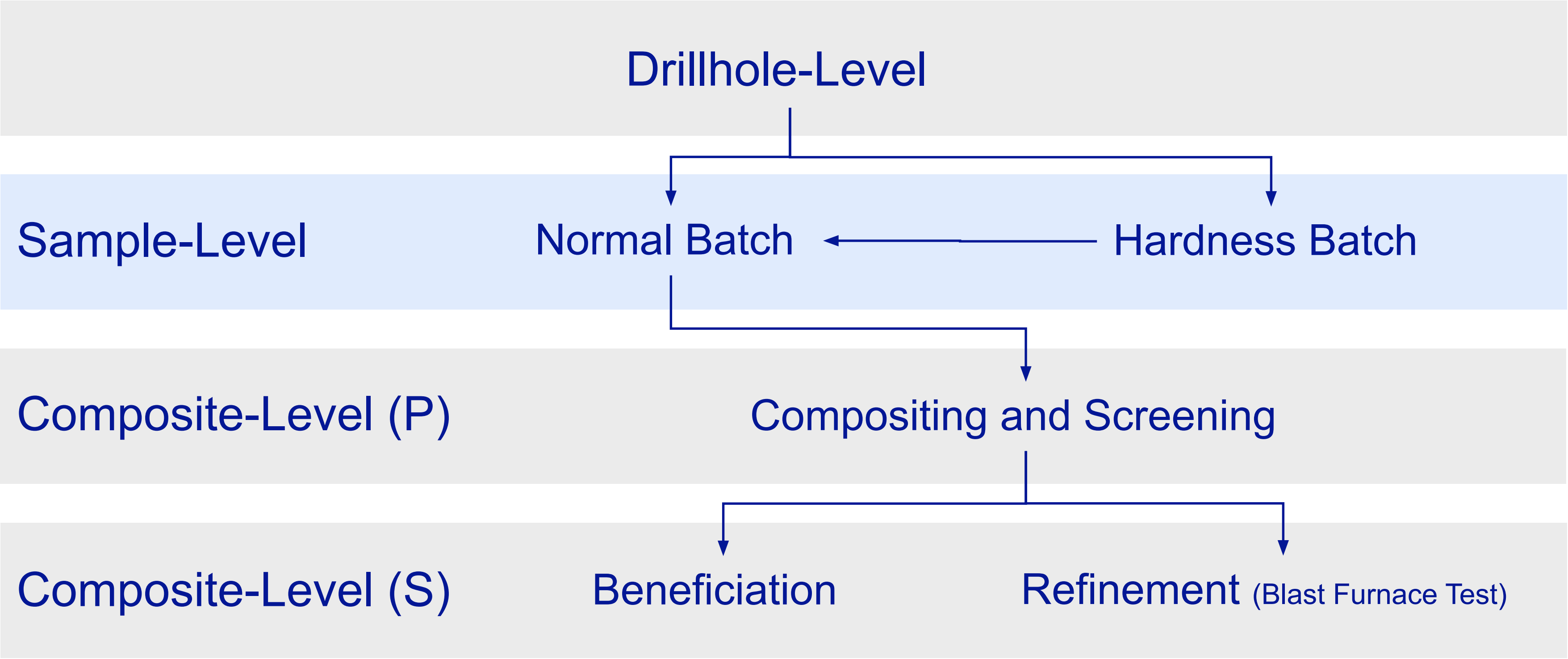
Drillhole-Level

Key Objective: Representivity

- Twin-Drilling of Known Rock Types
- Reduction Ratio at least 3x to allow for upscaling



Levels of QAQC



Levels of QAQC

Sample-Level	**Normal Batch**	**Hardness Batch**

SAMPLE PREP CHECKS

- Receipt Mass – Mass loss <2%
- Bulk Crushing – Mass loss <2%
- Bulk Splitting – Mass loss <2%
- Splitting accuracy <2-7%

CHEMICAL and PREP CHECKS

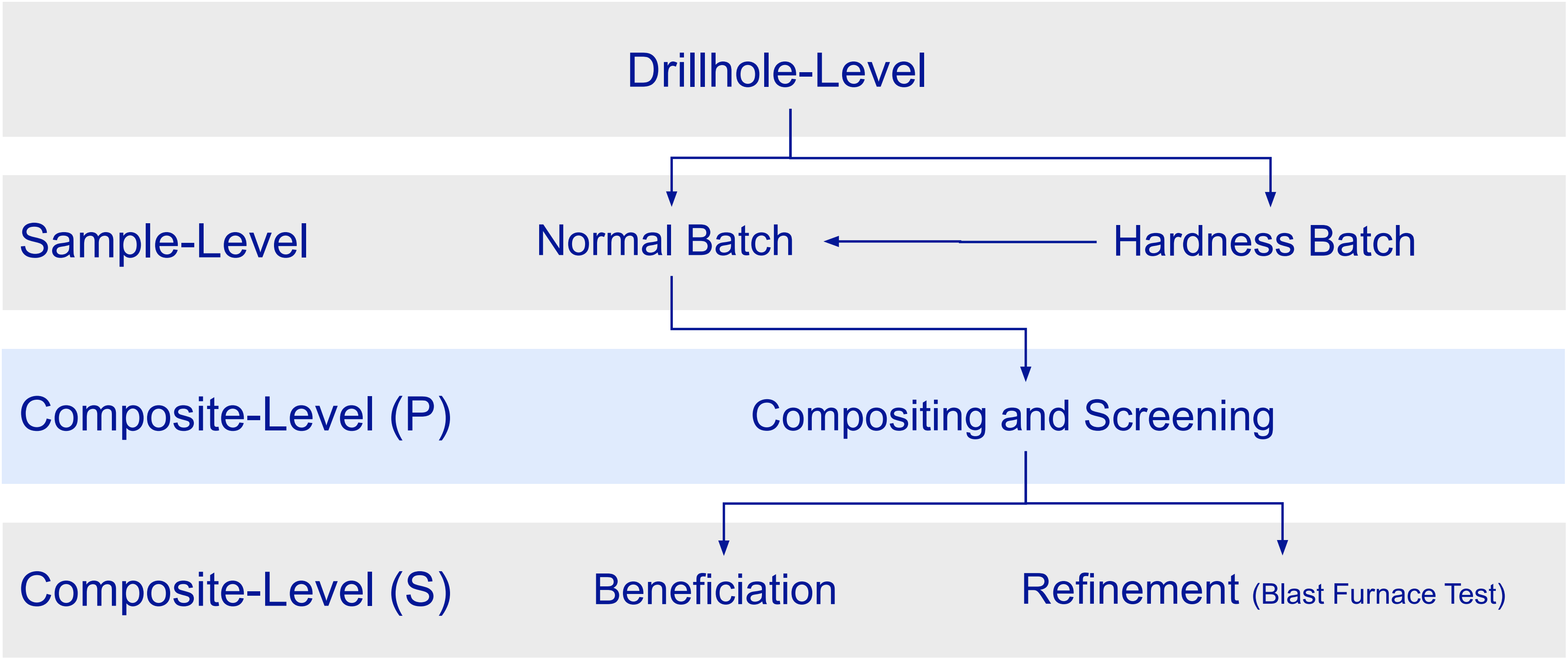
- Certified Reference Materials
- Coarse and Pulp Duplicates
- Externals

Levels of QAQC

Sample-Level	Normal Batch	Hardness Batch

- **Based on Mass Conservation**
  - Sample wrapped and weighed at site and at lab
- **Crusher Work Index Test**
  - Repeated 5x for average
  - Outliers discarded
- **UCS Results**
  - Length-to-Diameter Ratio >1.5
- **Pointload-UCS Results**
  - 30 Samples per Ore Type for Conversion Factor

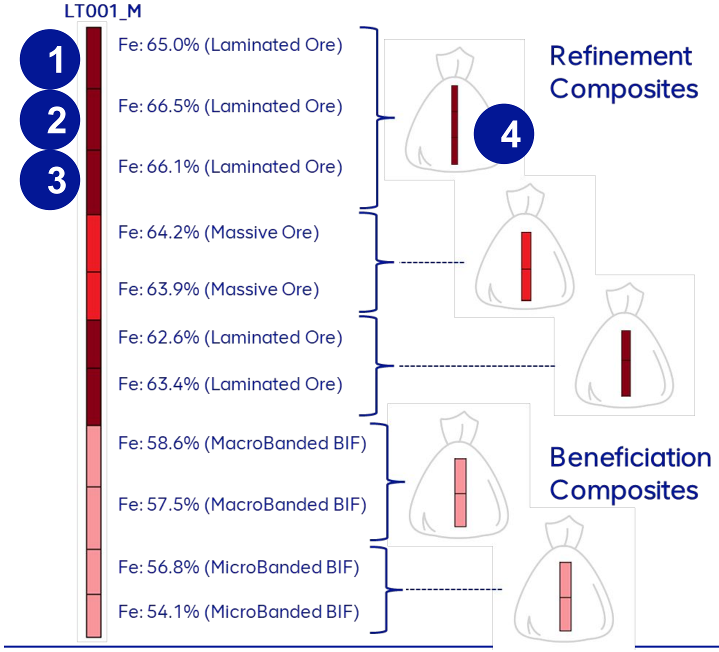
Levels of QAQC



Levels of QAQC

Composite-Level

Compositing and Screening

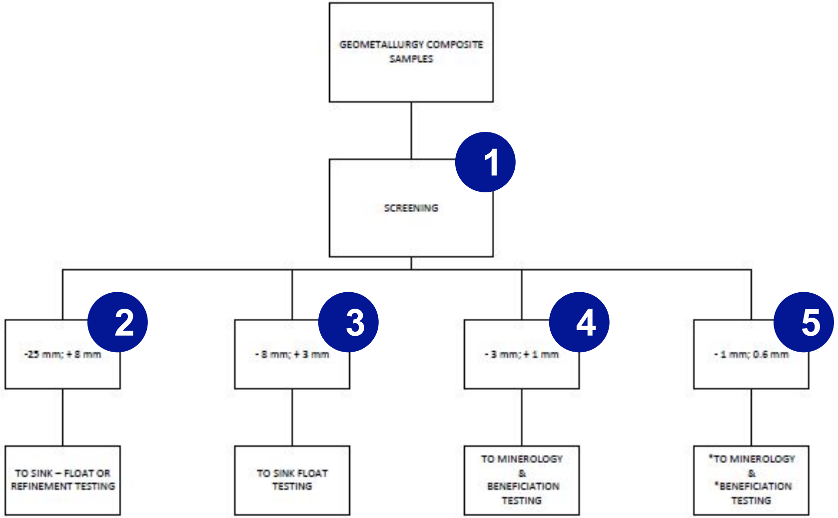


- **Consecutive Samples which**
  - do not cross lithological boundary
  - have similar texture, i.e. laminated, conglomeratic
  - have similar chemistry
- **Mass Conservation**
  - *Additive = 1 + 2 + 3 … + n = 4*
  - <2% Deviation Accepted

Levels of QAQC

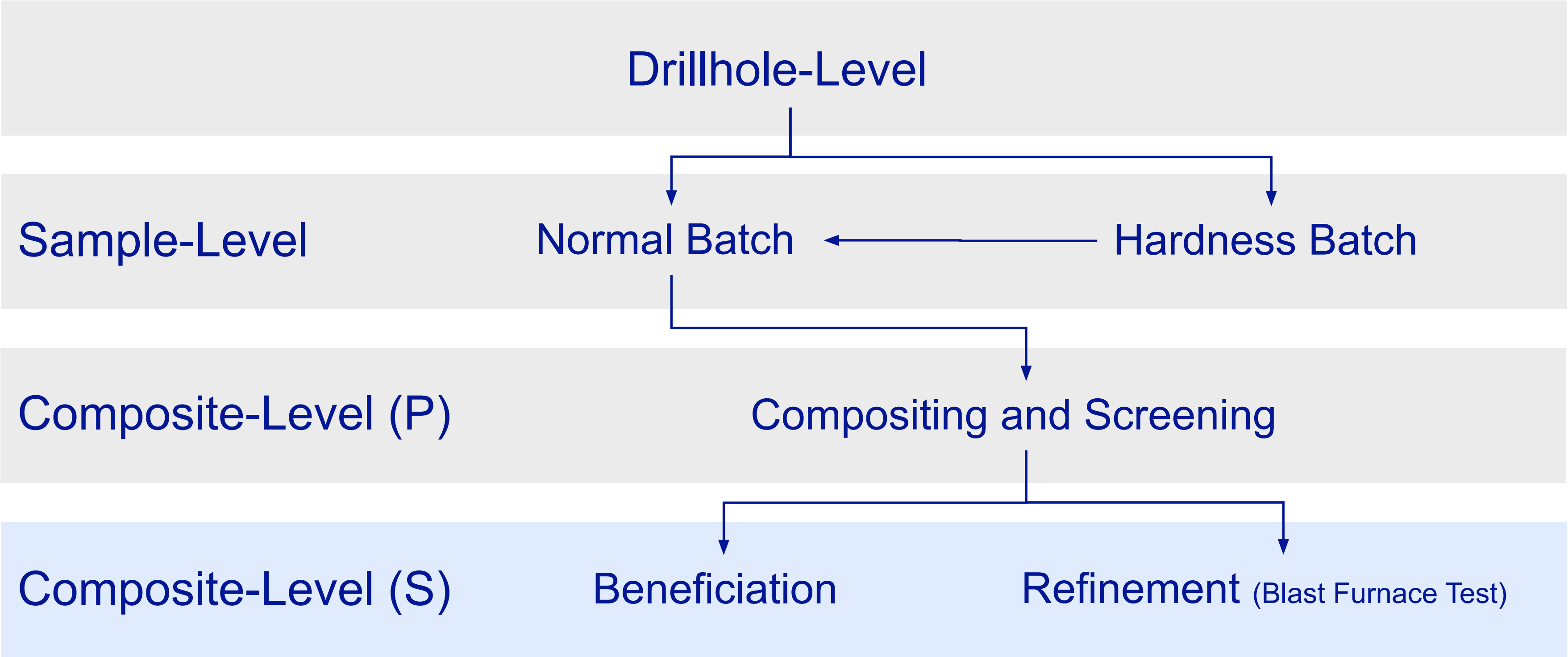
Composite-Level

Compositing and Screening



- **Mass Conservation**
  - *Additive = 2 + 3 + 4 + 5 … + n = 1*
  - <2% Deviation Accepted
- **Chemical Conservation**
  - *Weighted average*
  - <5% Deviation on Fe
  - <15% Deviation on other contaminants

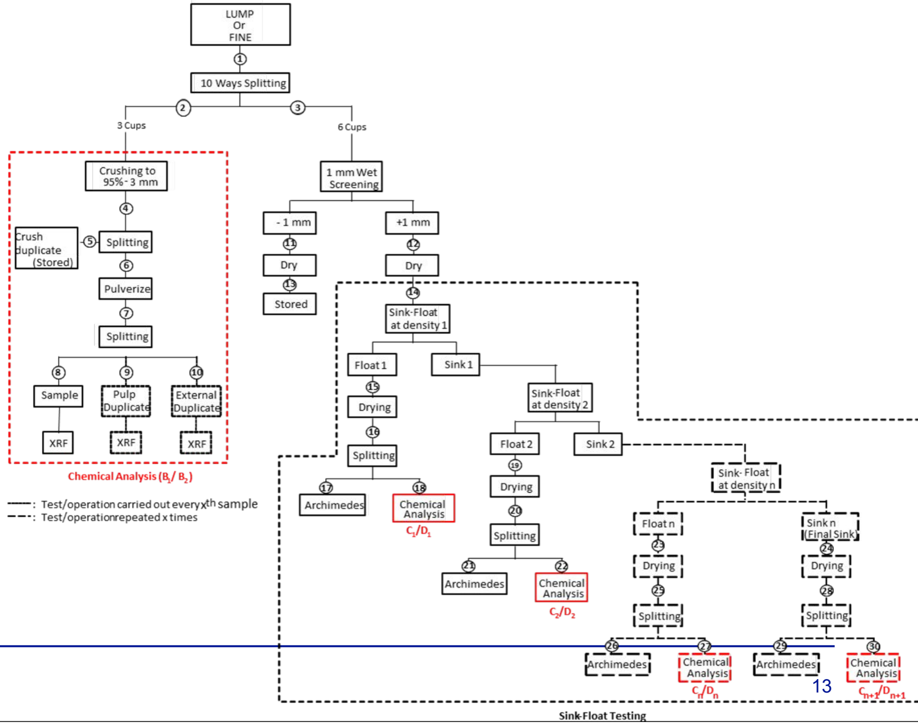
Levels of QAQC



Levels of QAQC

Composite-Level | Beneficiation | Refinement (Blast Furnace Test)

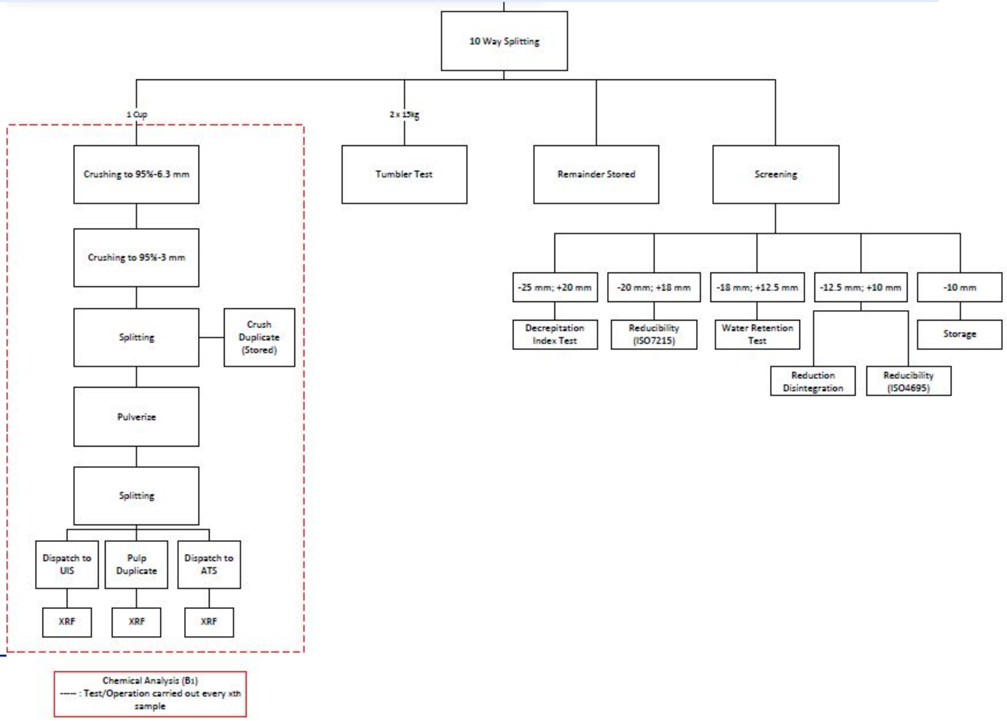
- **Mass Conservation**
  - Mass Recovered per density bin
  - <2% Deviation Accepted
- **Chemical Conservation**
  - <5% Deviation on Fe
  - <15% Deviation on other contaminants
- **Lab QAQC**
  - Duplicates
  - Externals



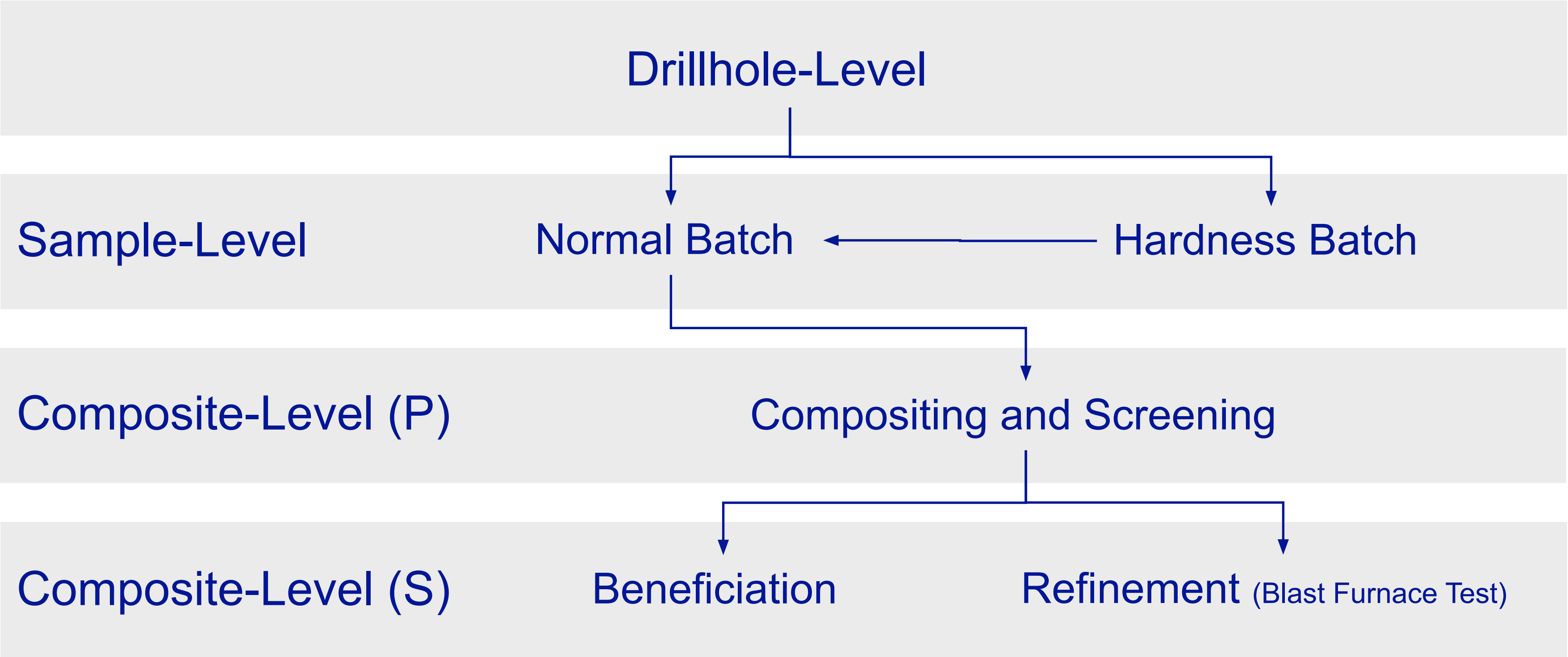
Levels of QAQC

Composite-Level | Beneficiation | Refinement (Blast Furnace Test)

- **Mass Conservation**
  - *Additive*
  - <2% Deviation Accepted
- **Chemical Conservation**
  - *Weighted*
  - <5% Deviation on Fe
  - <15% Deviation on other contaminants
- **Repeated Testwork**
  - Destructive test, repeated 2-3 times
  - Large mass requirements (~60kg)



Levels of QAQC



Impact of QAQC Protocol

- QAQC Level breakdown reduces wasted resources and optimises budget
- Geomet workflows are auditable
  - Continuous audits via QAQC measures built into database
  - Annual QAQC report ensures feedback to Sites, Lab and Competent Person(s)
- High-Quality data delivery for Geomet Modelling
  - Less than 5% data failures
- Ensured collaboration with key stakeholders **to ensure confidence in geomet models**

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Thank you