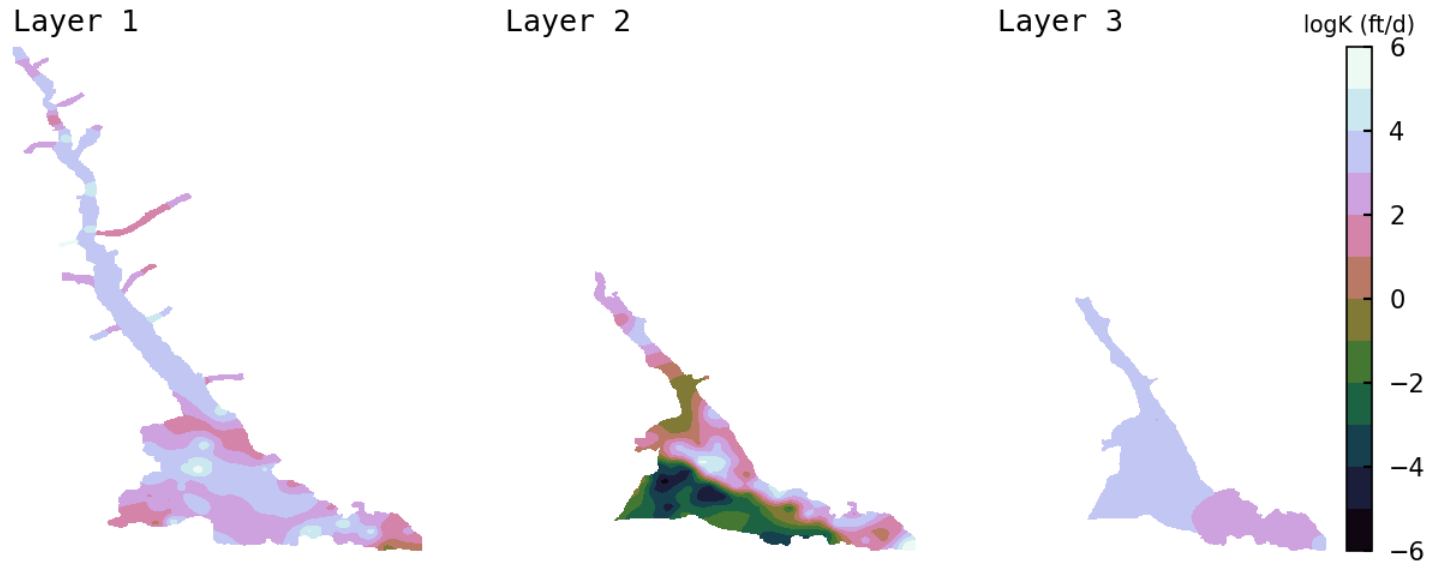


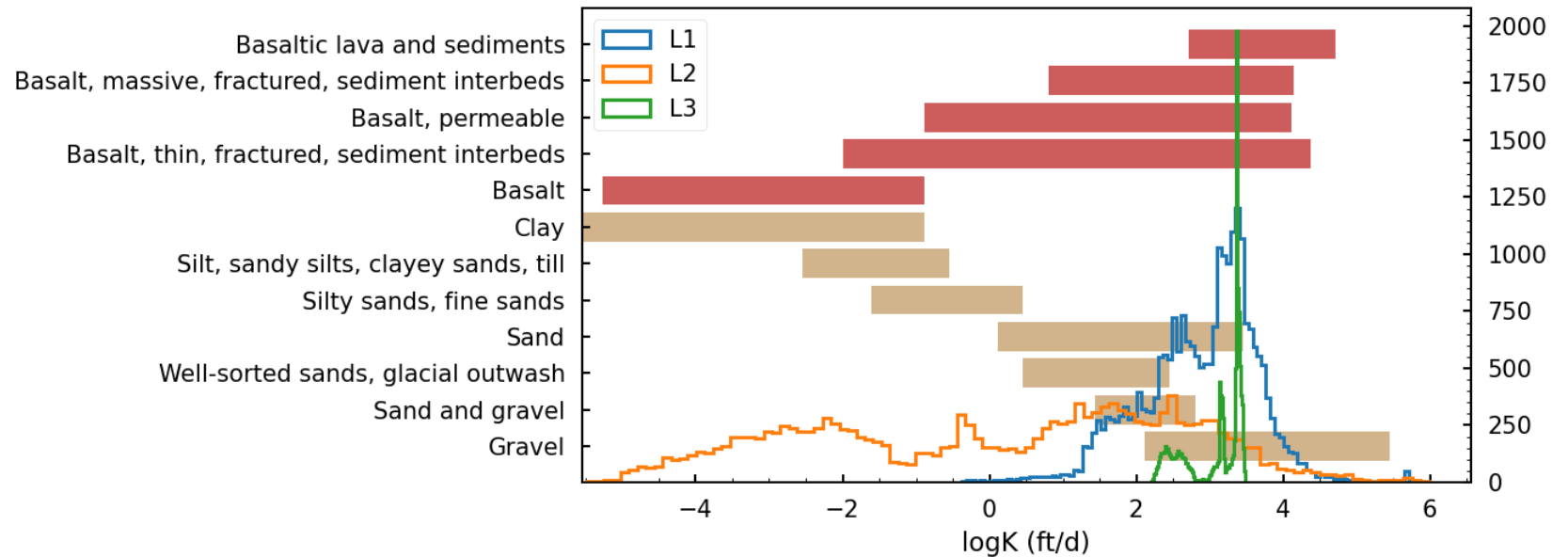
**PEST HYDRAULIC
CONDUCTIVITY BOUNDS**



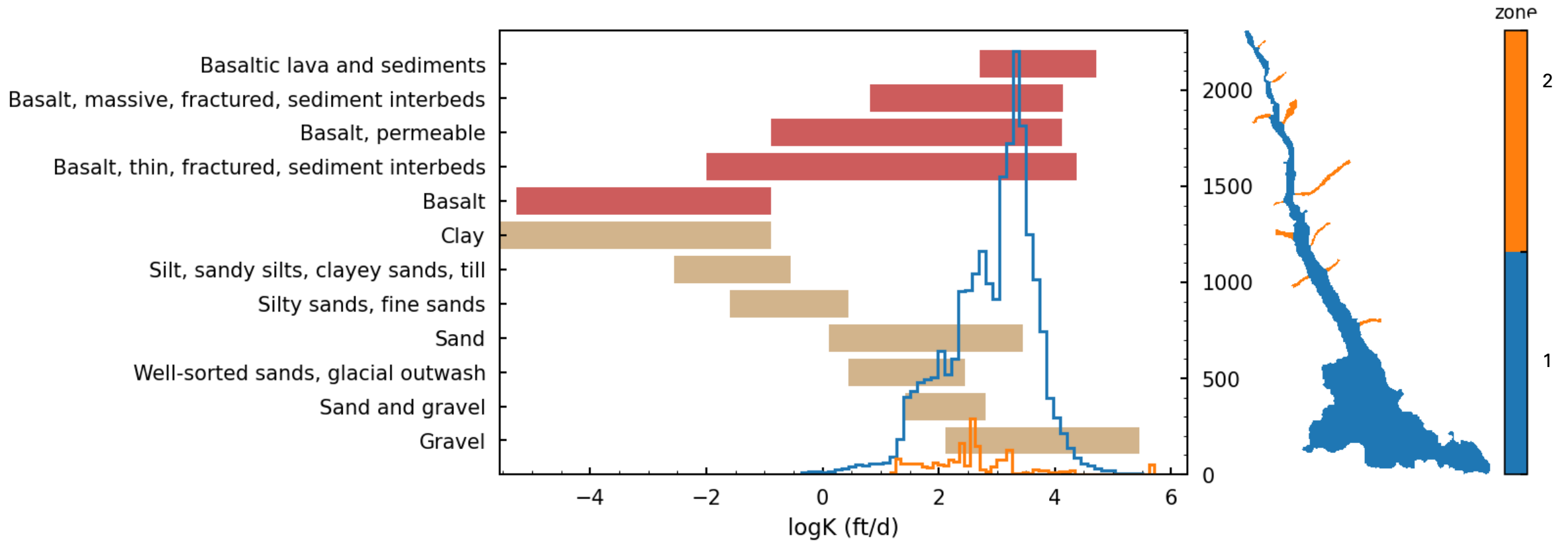
WRV 1.1 horizontal hydraulic conductivity



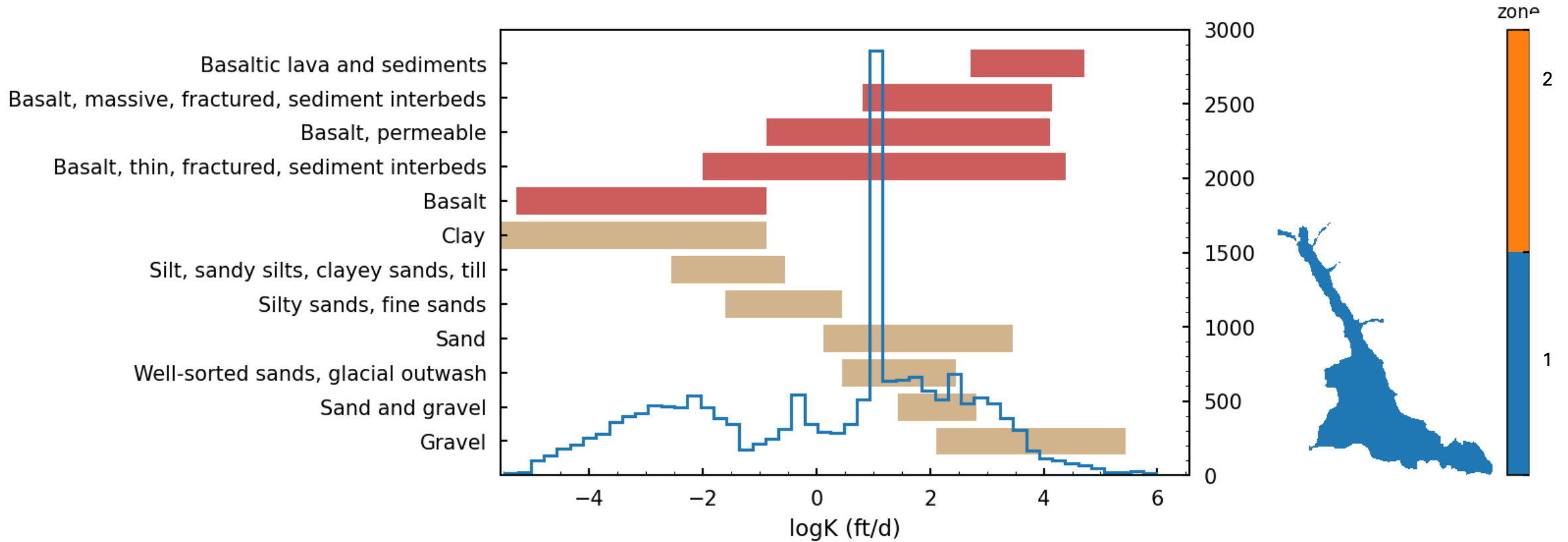
| ft/d | Layer 1 | Layer 2 | Layer 3 |
|-------------|---------|---------|---------|
| mean | 3,566 | 3,135 | 1,605 |
| min | 0.425 | 3.3E-06 | 160 |
| 25% | 247 | 0.007 | 466 |
| 50% | 1,054 | 3 | 1,914 |
| 75% | 2,519 | 136 | 2,378 |
| max | 515,549 | 959,532 | 3,054 |



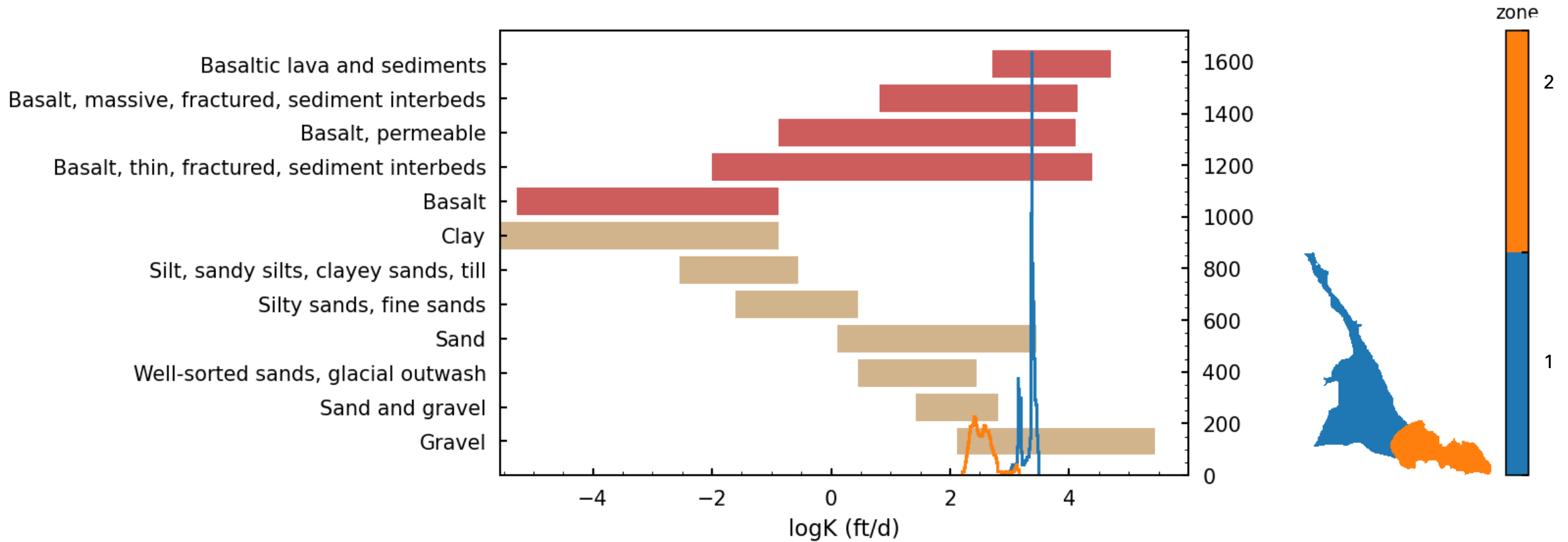
Layer 1 hK zones



Layer 2 hK zone



Layer 3 hK zones



Update PEST parameter upper bounds

- Currently PEST upper bounds are $1e10$ m/d
- Use Spitz and Moreno (1996) upper bounds for gravel and basalts
 - Similar values to Freeze and Cherry
- No. of Cells exceeding new bound:
 - Layer 1: 50
 - Layer 2: 53

| Proposed Hk upper bound (ft/d) | Layer | | |
|--------------------------------|---------|---------|---------|
| Zone | 1 | 2 | 3 |
| 1 | 280,000 | 280,000 | 280,000 |
| 2 | 280,000 | - | 51,000 |