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HUDBAY

WASTE ROCK PLACEMENT- ANNUAL LAYOUTS

October 20, 2023

HUDBAY

ASSUMPTIONS

Waste Rock Distribution by Period in tons

WASTE_TYPE	Yr01	Yr02	Yr03	Yr04	Yr05	Yr06	Yr07	Yr08	Yr09	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15	Grand Total
NAG	1,249,474	5,297,285	6,639,245	8,426,705	12,954,153	30,391,719	32,631,505	34,074,218	48,147,490	50,226,532	46,208,435	45,114,885	44,332,041	45,526,061	43,858,580	455,078,328
PAG	150,526	172,399	369,819	499,545	301,533	4,081,375	912,165	319,075	969,806	872,545	319,465	1,457,909	2,148,525	1,040,727	5,738,554	19,353,970
AG		411	90,936	173,750	168,669	201,905	1,131,330	281,707	340,448	923	72,100	27,206	119,434	33,211	345,737	2,987,768
Grand Total	1,400,000	5,470,096	7,100,000	9,100,000	13,424,355	34,675,000	34,675,000	34,675,000	49,457,744	51,100,000	46,600,000	46,600,000	46,600,000	46,600,000	49,942,872	477,420,067

- Waste Rock Material Description:
 - NAG: Non-Acid Generating
 - PAG: Potentially Acid Generating
 - AG: Acid Generating

- AG and PAG material types to be encapsulated with NAG.

TYPICAL SECTION FOR ENCAPSULATION

Per Waste Rock Handling Plan (April 2023)

5.0 MATERIAL PLACEMENT STRATEGIES

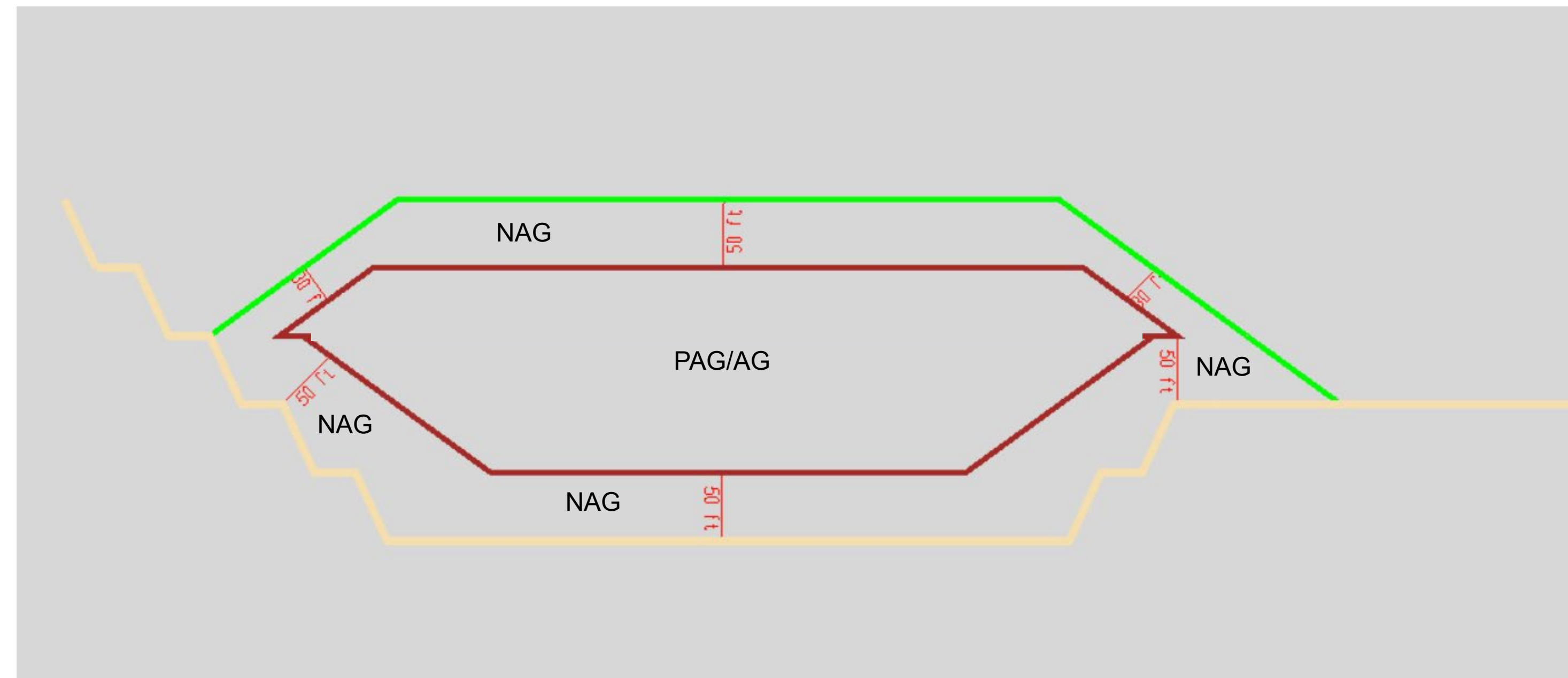
The placement location of waste rock from an entire blast zone or portion of a blast zone can be designated based on the information gathered in the field or query of the database/block model.

As indicated in Section 4.0, the following general placement requirements would be applicable:

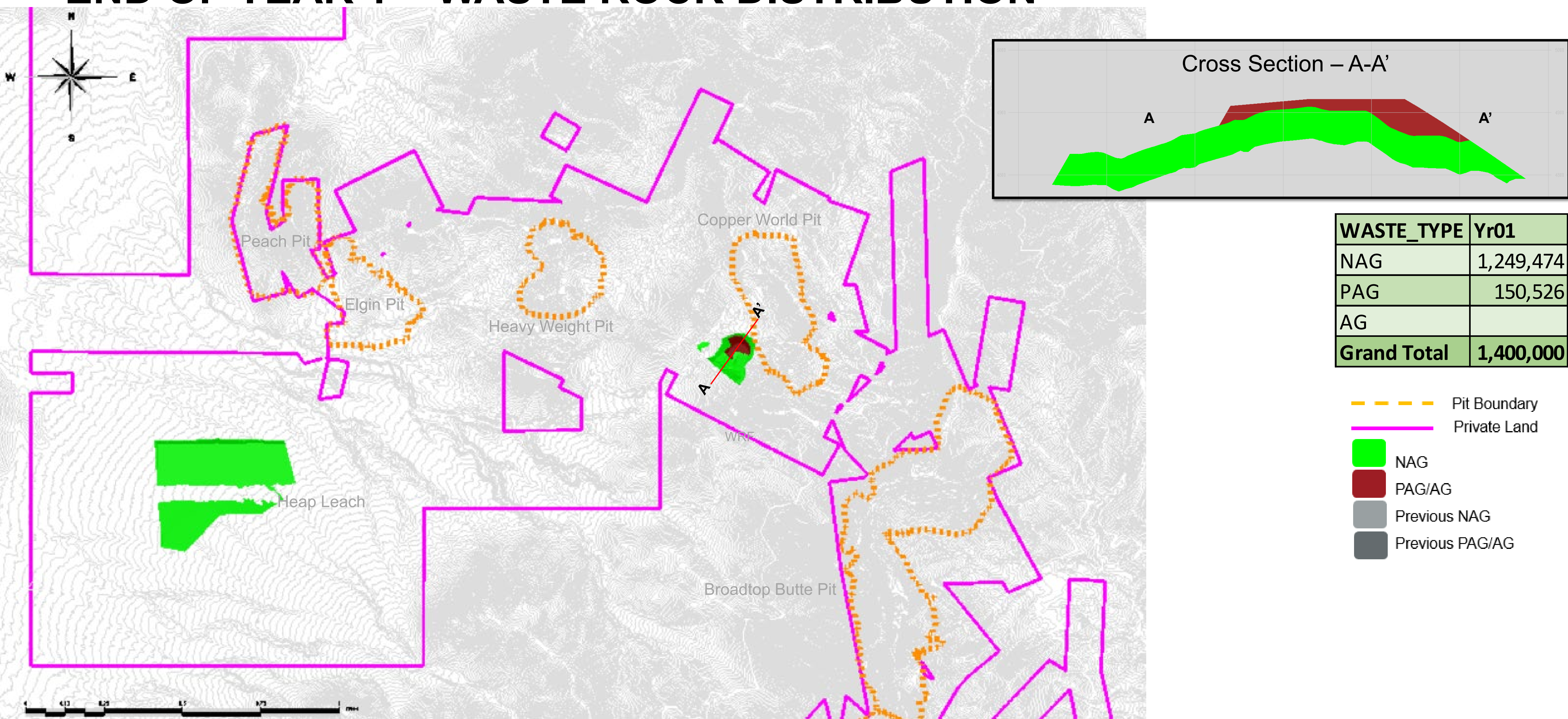
- Material classified as NAG will preferentially be placed on the outer slopes of the WRF; and
- Material classified as PAG/AG will be placed on the interior of the WRF, with AG materials encapsulated with NAG material.

It is anticipated that a minimum of 30 feet of NAG material would be placed on the outer slope of the WRF, with PAG and AG placed on the interior areas. PAG and AG materials would not be placed directly on bare ground surfaces or within existing drainage paths. PAG and AG materials would be placed on a base on NAG material as well as being covered with NAG material; in both cases with a minimum of 50 ft NAG thickness.

Typical Section for Encapsulation

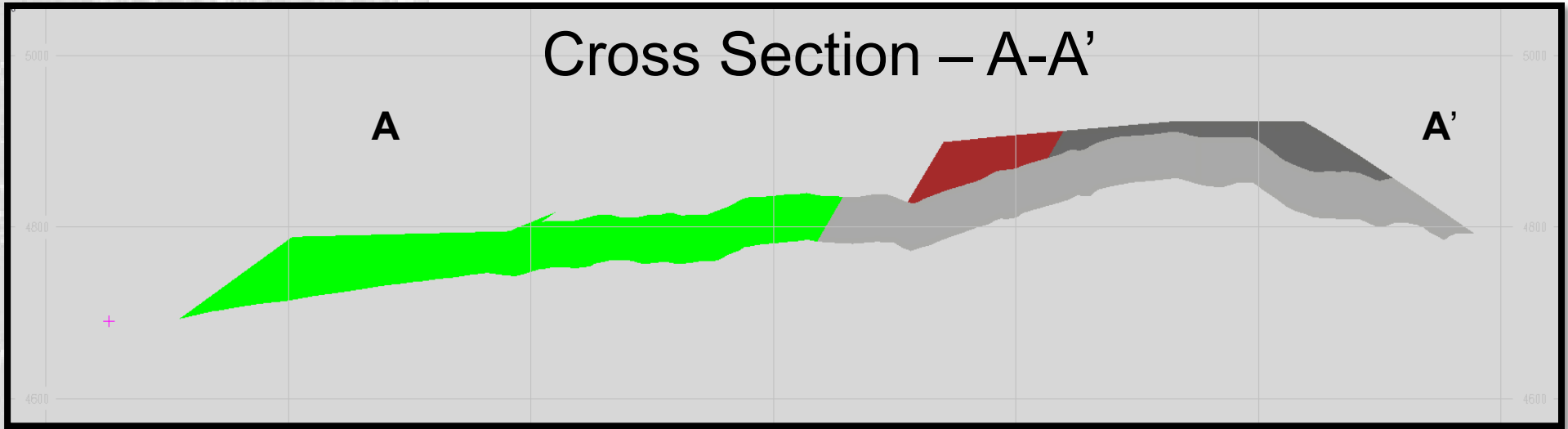
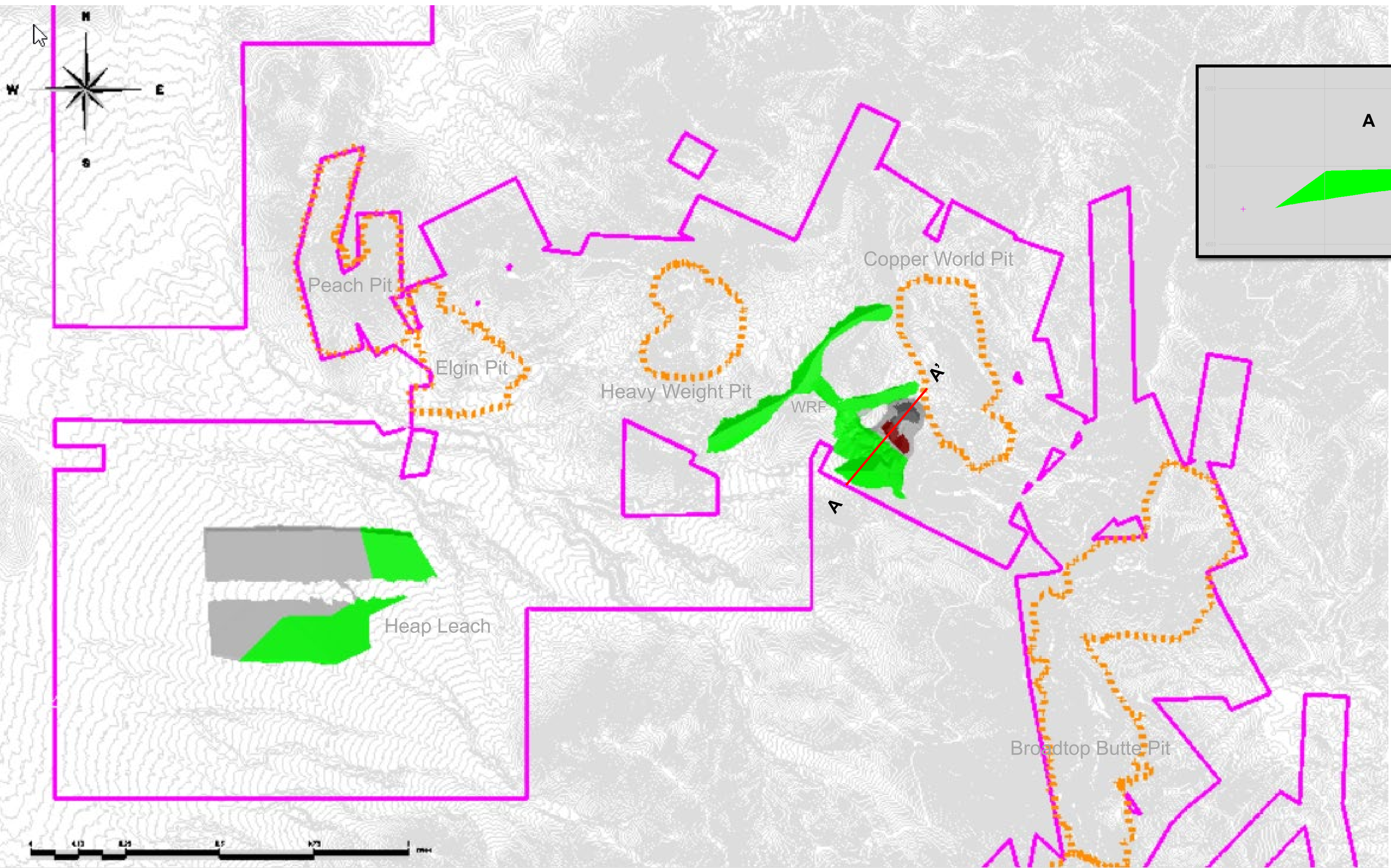


END OF YEAR 1 – WASTE ROCK DISTRIBUTION



*Controls will be in place to contain stormwater runoff from interim outer slopes that are temporarily exposed to PAG materials.

END OF YEAR 2 – WASTE ROCK DISTRIBUTION

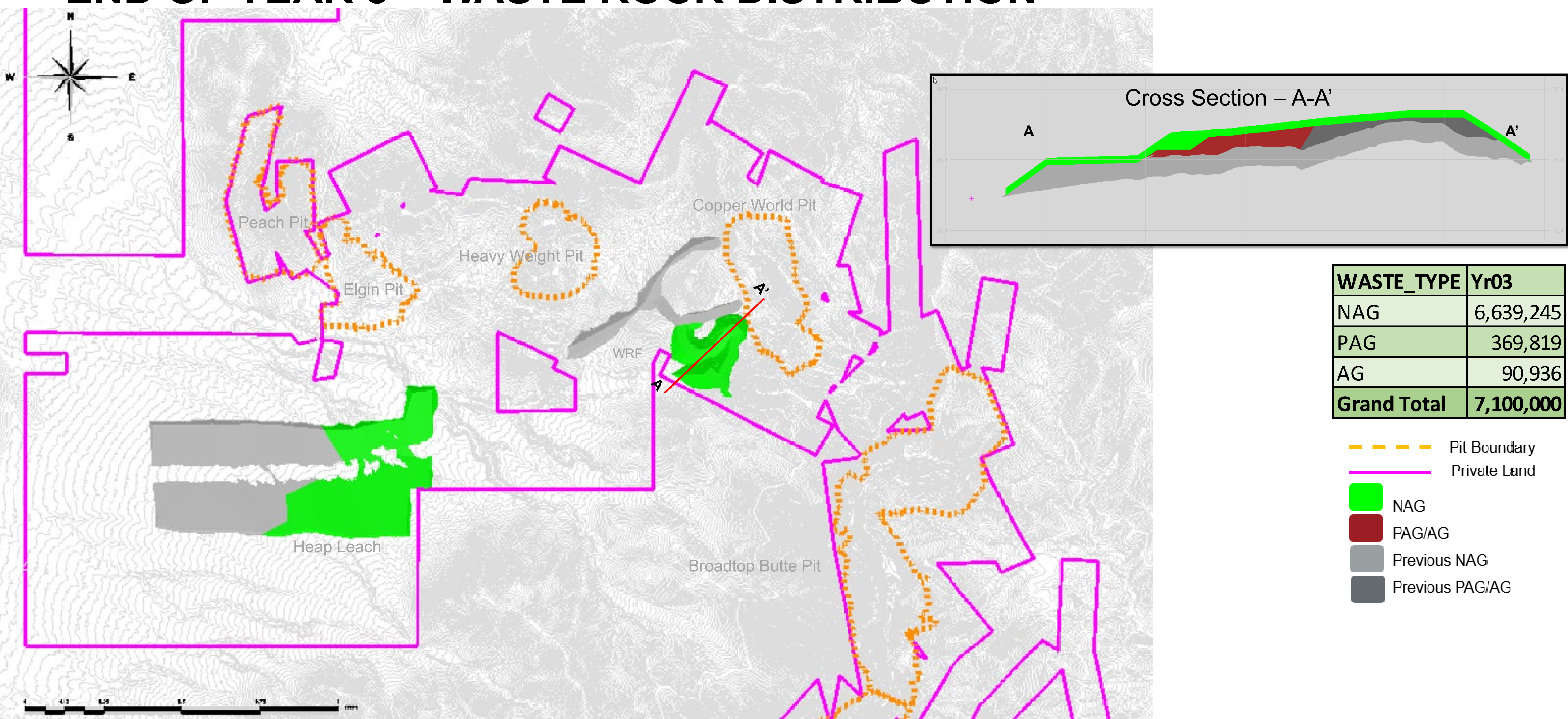


WASTE_TYPE	Yr02
NAG	5,297,285
PAG	172,399
AG	411
Grand Total	5,470,096

- Pit Boundary
- Private Land
- NAG
- PAG/AG
- Previous NAG
- Previous PAG/AG

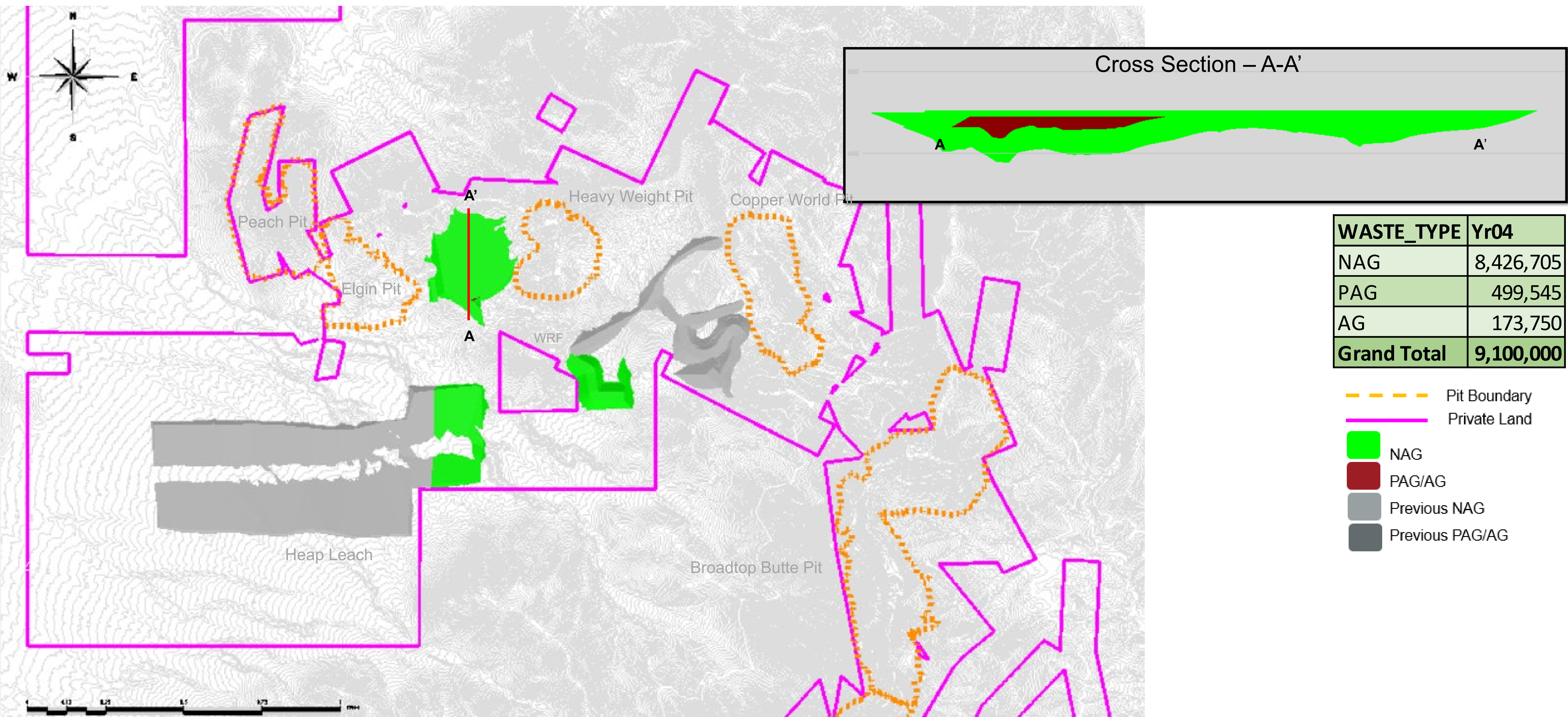
*Controls will be in place to contain stormwater runoff from interim outer slopes that are temporarily exposed to PAG materials.

END OF YEAR 3 – WASTE ROCK DISTRIBUTION

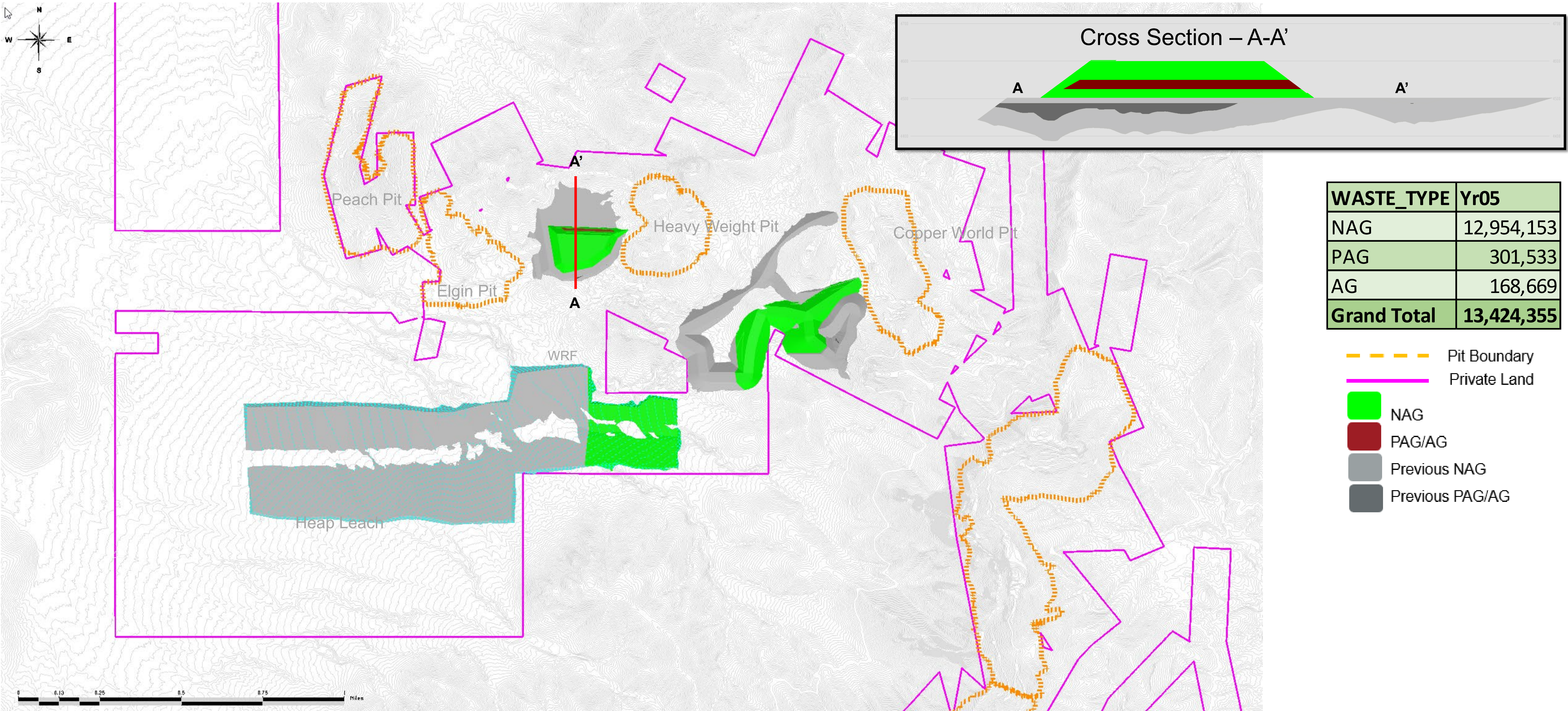


WASTE_TYPE	Yr03
NAG	6,639,245
PAG	369,819
AG	90,936
Grand Total	7,100,000

END OF YEAR 4 – WASTE ROCK DISTRIBUTION

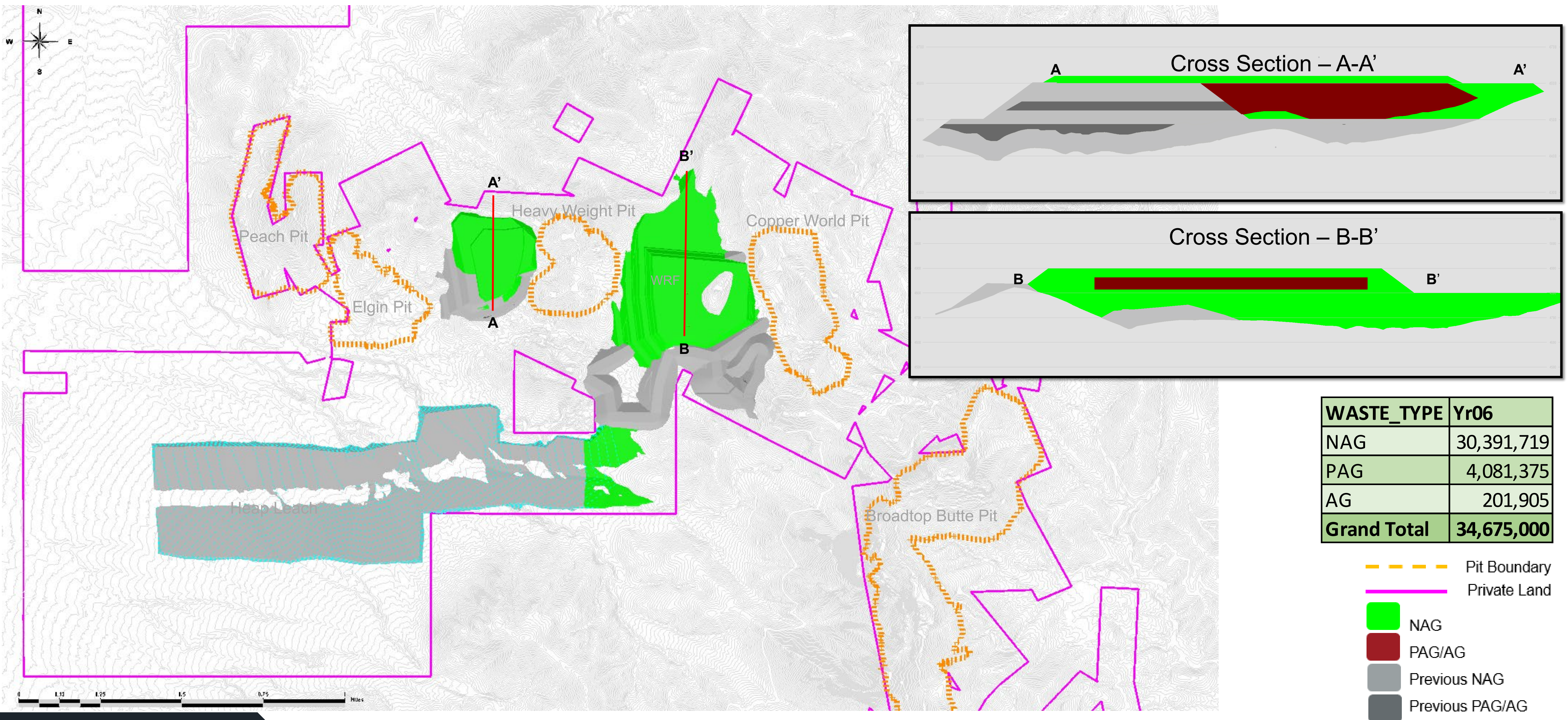


END OF YEAR 5 – WASTE ROCK DISTRIBUTION

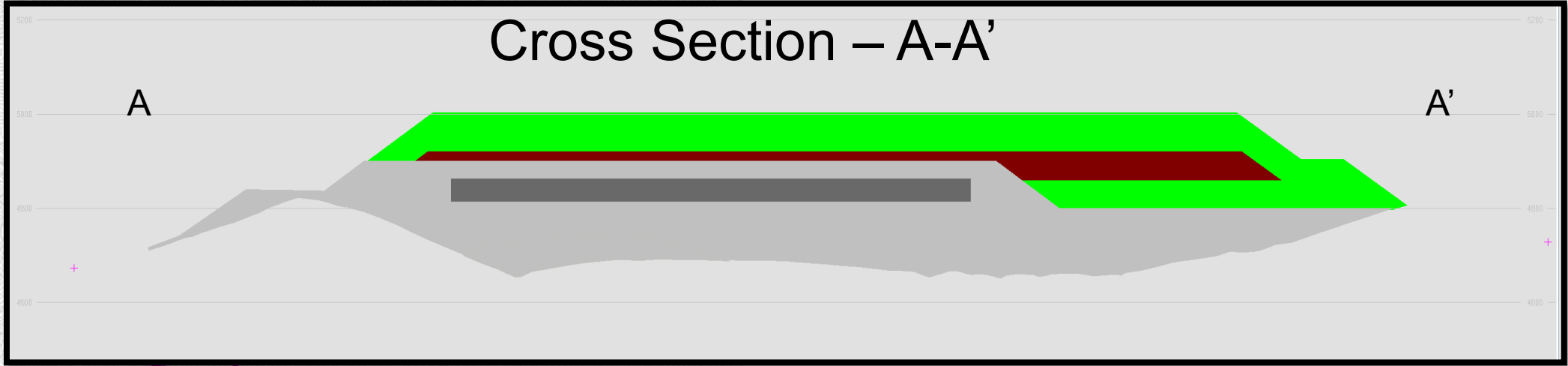
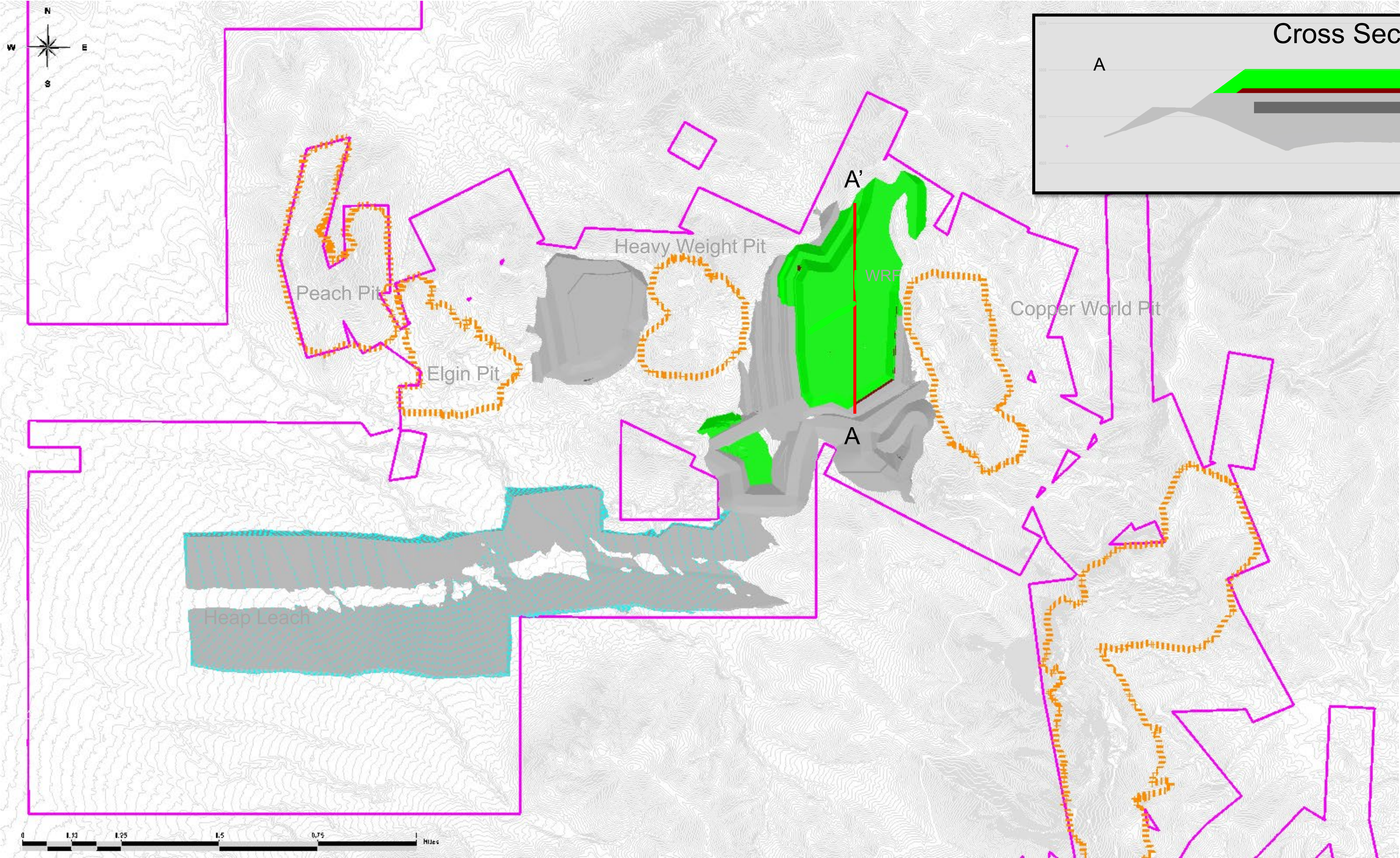


*Controls will be in place to contain stormwater runoff from interim outer slopes that are temporarily exposed to PAG materials.

END OF YEAR 6 – WASTE ROCK DISTRIBUTION



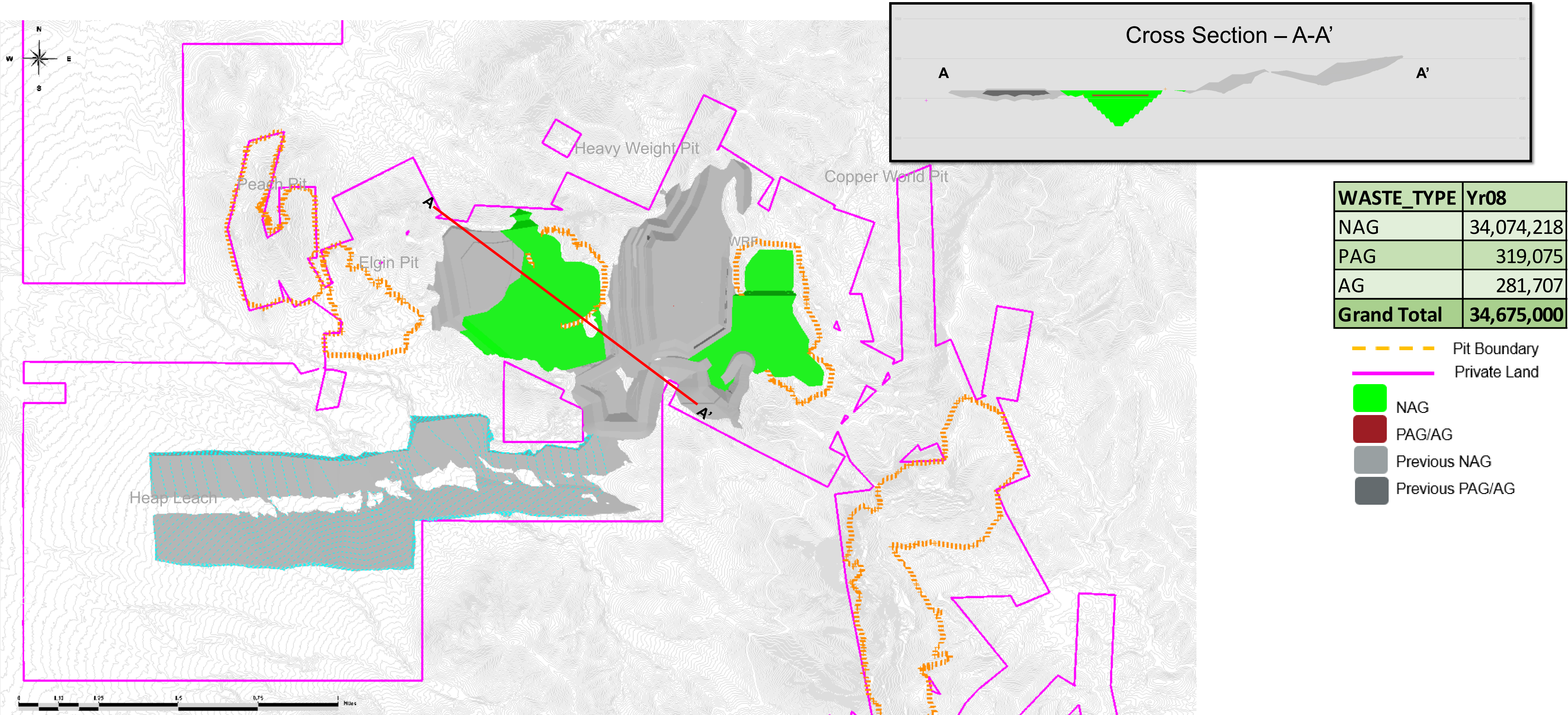
END OF YEAR 7 – WASTE ROCK DISTRIBUTION



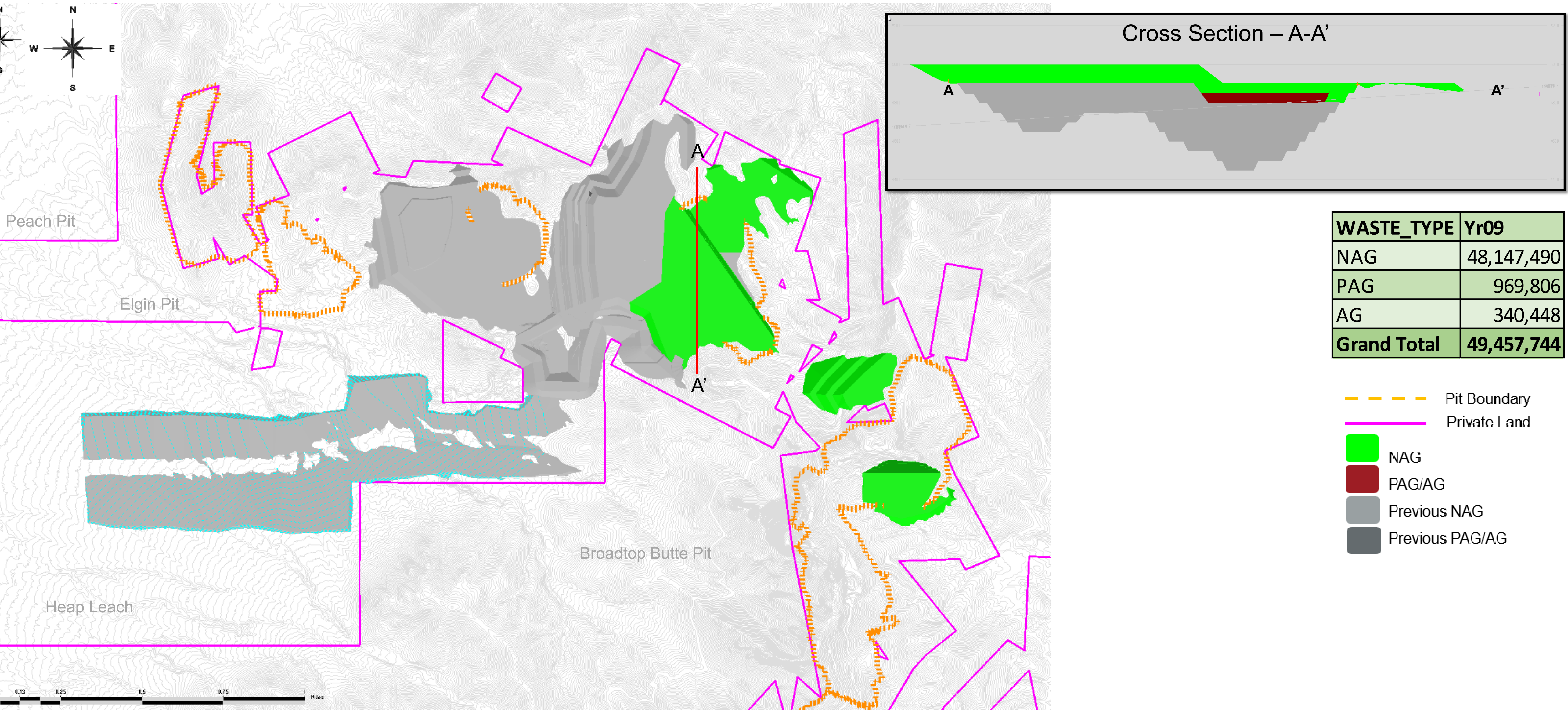
WASTE_TYPE	Yr07
NAG	32,631,505
PAG	912,165
AG	1,131,330
Grand Total	34,675,000

- Pit Boundary
- Private Land
- NAG
- PAG/AG
- Previous NAG
- Previous PAG/AG

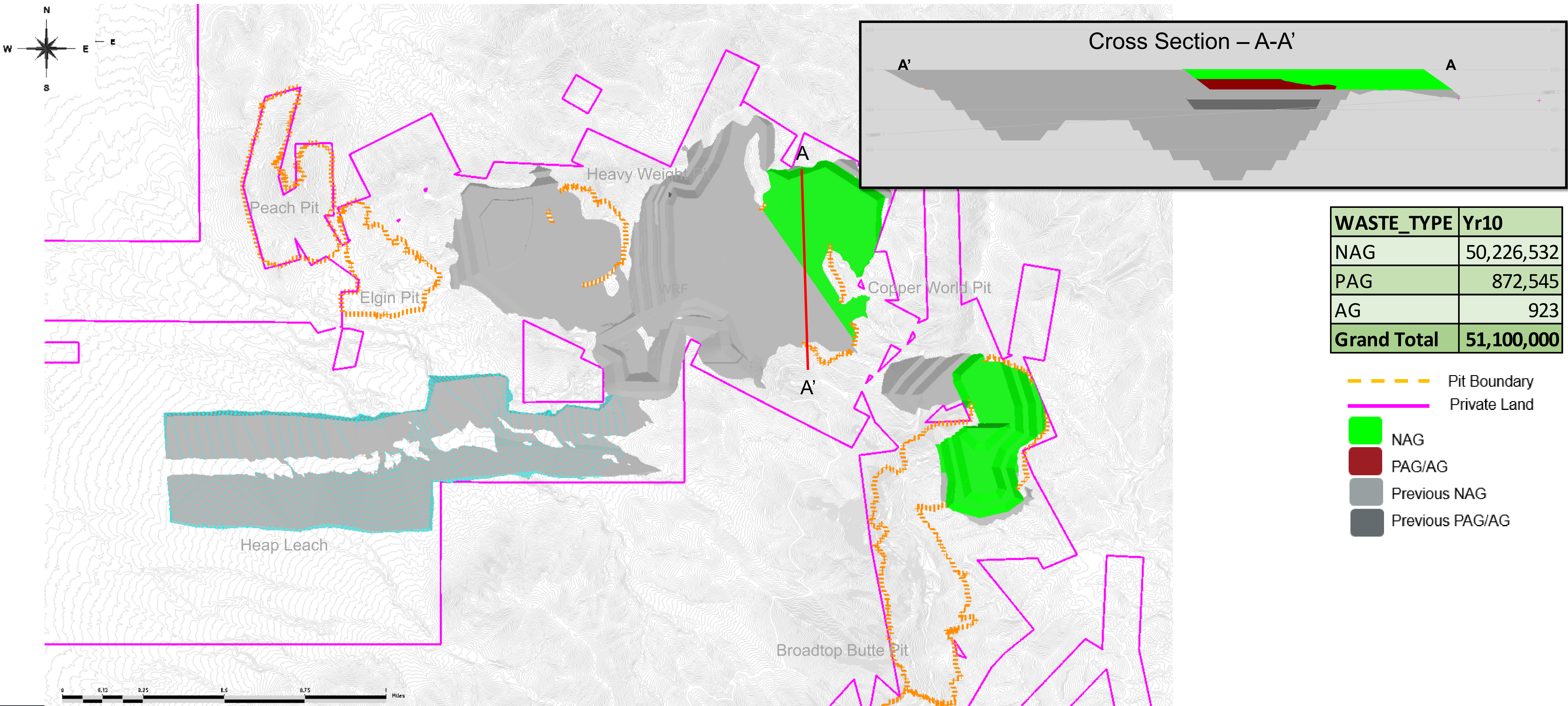
END OF YEAR 8 – WASTE ROCK DISTRIBUTION



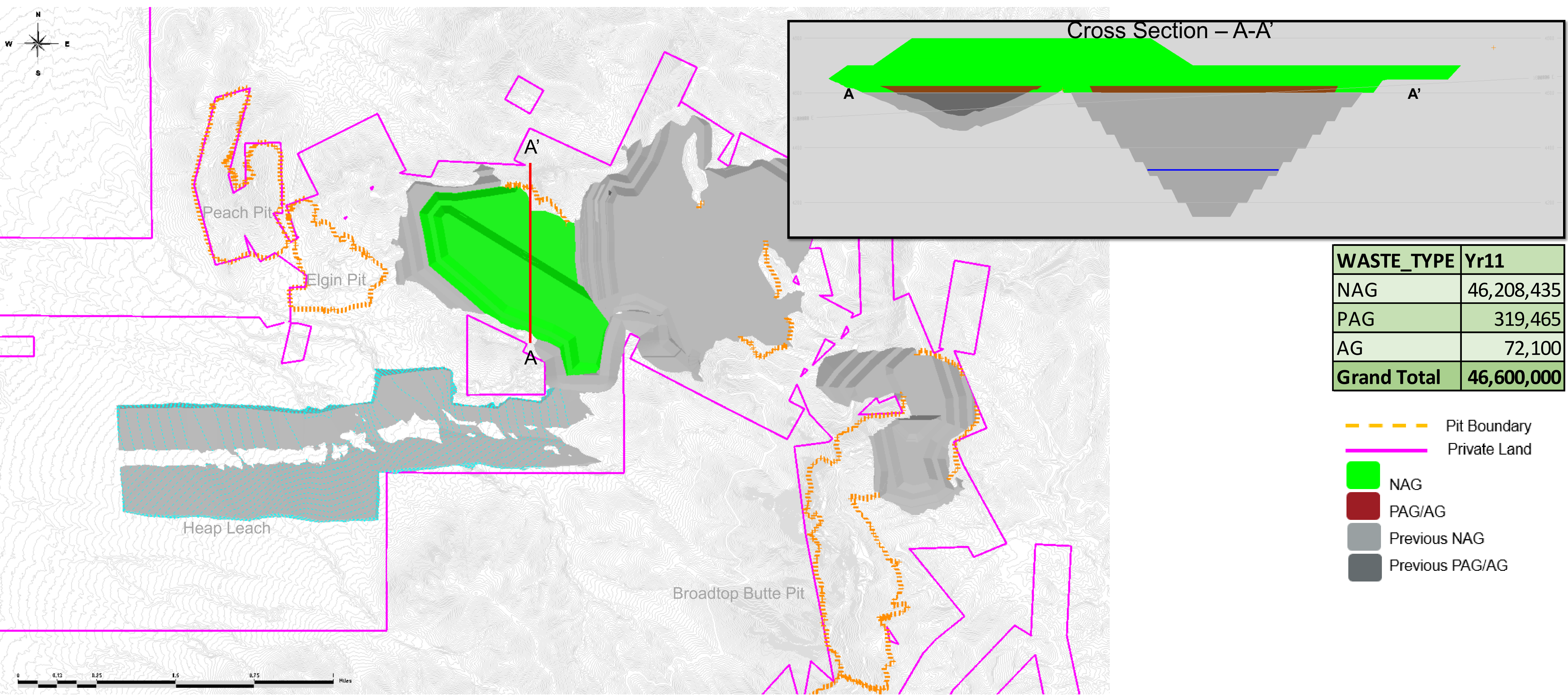
END OF YEAR 9 – WASTE ROCK DISTRIBUTION



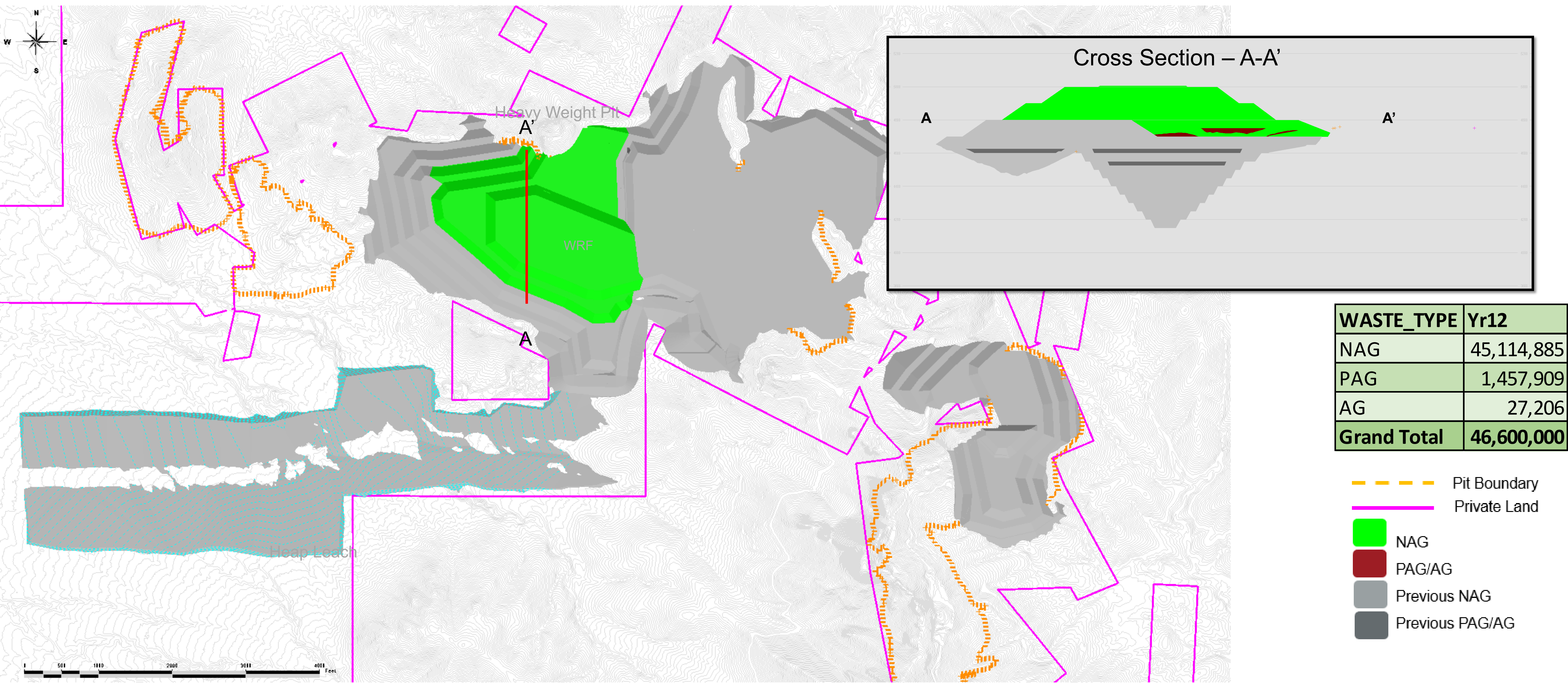
END OF YEAR 10 – WASTE ROCK DISTRIBUTION



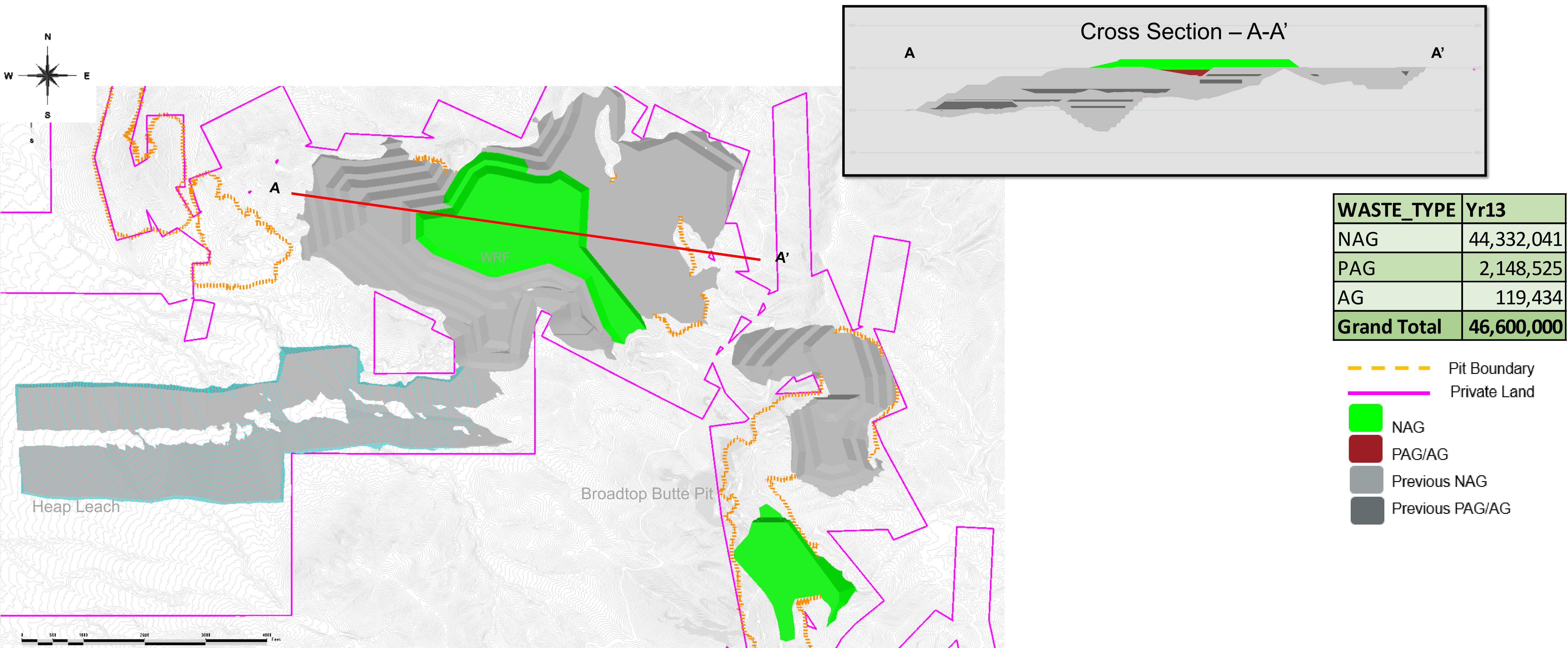
END OF YEAR 11 – WASTE ROCK DISTRIBUTION



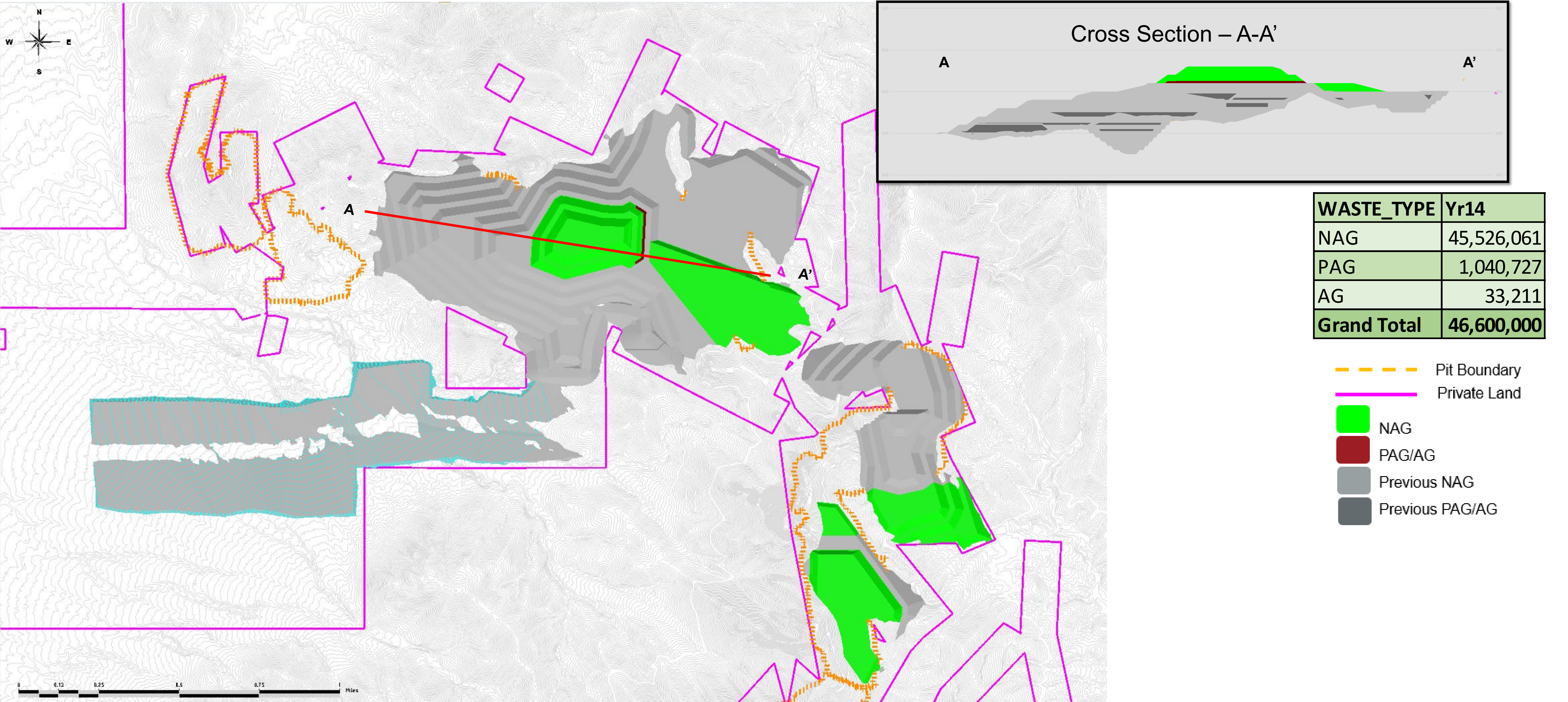
END OF YEAR 12 – WASTE ROCK DISTRIBUTION



END OF YEAR 13 – WASTE ROCK DISTRIBUTION



END OF YEAR 14 – WASTE ROCK DISTRIBUTION



END OF YEAR 15 – WASTE ROCK DISTRIBUTION

