

APPENDIX C

Kent Wellhead Protection Program

Appendix C: Kent Wellhead Protection Program

Appendix C is a compilation of figures from the Kent Wellhead Protection Program with the Reserve Silica Reclamation Site added to the figures for reference. This appendix contains the following figures:

Figure C.1: Kent Wellhead Protection Areas

Figure C.2: Zoning and Public Sewer System Boundaries Map

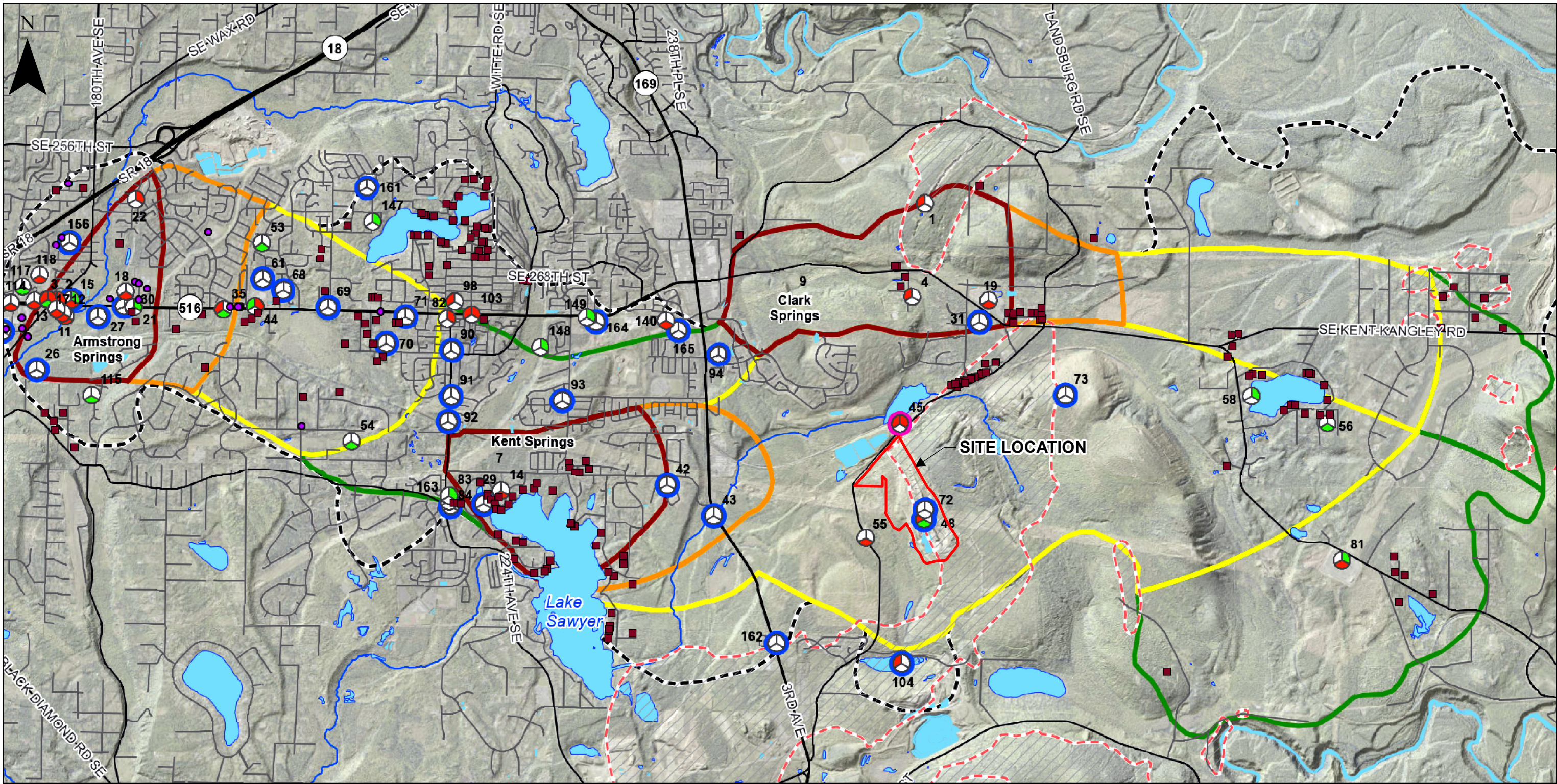
Figure C.3: Spring Source (Phase 1) WHPAS Hazard Ranking

Figure C.4: Surficial Geology and Cross Section Locations

Figure C.5: Groundwater Elevation Contour Map

Figure C.6: Modeled Capture Zones and Surface Water Divide Map

Figure C.7: Wellhead Protection Areas by Zone



LEGEND

Approximate Site Boundary

Interaction Types of Concern

Ranking
Cleanup Site → 1 → UST/LUST

Hazardous Materials

● = Present & Active

● = Present & Inactive

○ = Not Present

● = Solid Waste Management

○ = Water Quality Interaction Type

Modeled Capture Zones

6-month time of travel

1-year time of travel

5-year time of travel

10-year time of travel

WHPA Buffer/Surface Water Divide

NOTES

1. Original source: Pacific Groundwater Group. 2022. City of Kent Wellhead Protection Program Update, External Version.
2. "Site" refers to the Remedial Investigation Study Area that includes parcels 0121069011 (Lot 5), 3622069138 (Lot 6) and 3522069146 (Lot 7).

Coal Mine Hazard Areas (from King County)

UIC Locations (from Ecology)

Buildings with Oil Heat (King County Assessor)

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PROJECT
REMEDIAL INVESTIGATION REPORT – RESERVE SILICA
RECLAMATION SITE

TITLE
**SPRING SOURCE (PHASE 1)
WHPAS HAZARD RANKING**

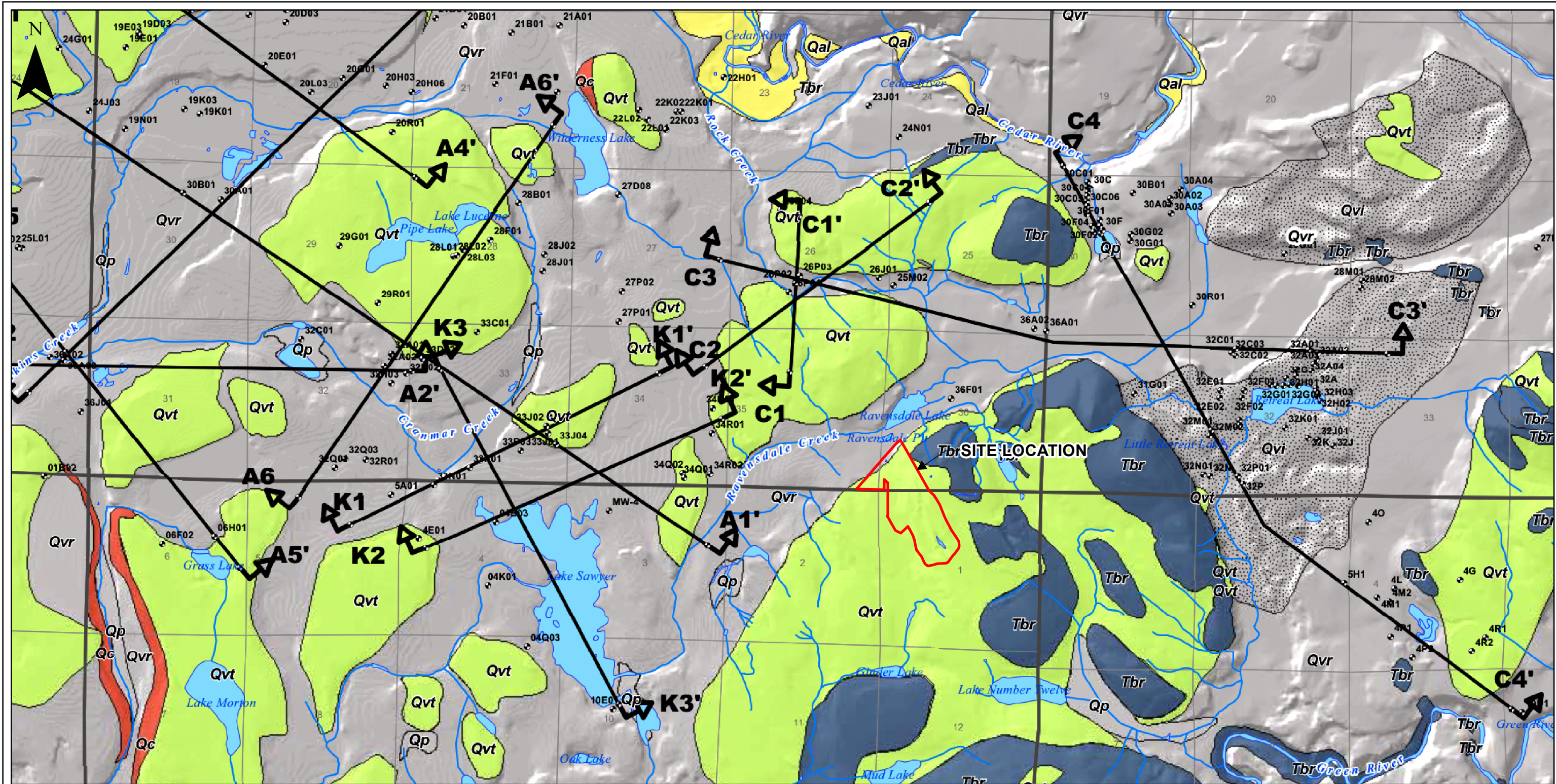
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REVIEWED	GL
APPROVED	GZ

PROJECT
GL152030402

PHASE
04

REV.
A

FIGURE
C.3



LEGEND

Approximate Site Boundary

(Qal) Recent Alluvium

(Qvr, Qp) Vashon Recessional Outwash

(Qvi) Vashon Ice - contact Deposits

(Qf) Older Fine - grained Deposits

(Qc) Older Coarse - grained Deposits

(Qvt) Vashon Till

(Tbr) Tertiary Volcanic and Sedimentary Rock

Wells with Logs used for Cross Section Development (from South King County GWMP Database)

Cross Section Location

NOTES

1. Original source: Pacific Groundwater Group. 2022. City of Kent Wellhead Protection Program Update, External Version.
2. "Site" refers to the Remedial Investigation Study Area that includes parcels 0121069011 (Lot 5), 3622069138 (Lot 6) and 3522069046 (Baja Property)
3. All locations are approximate

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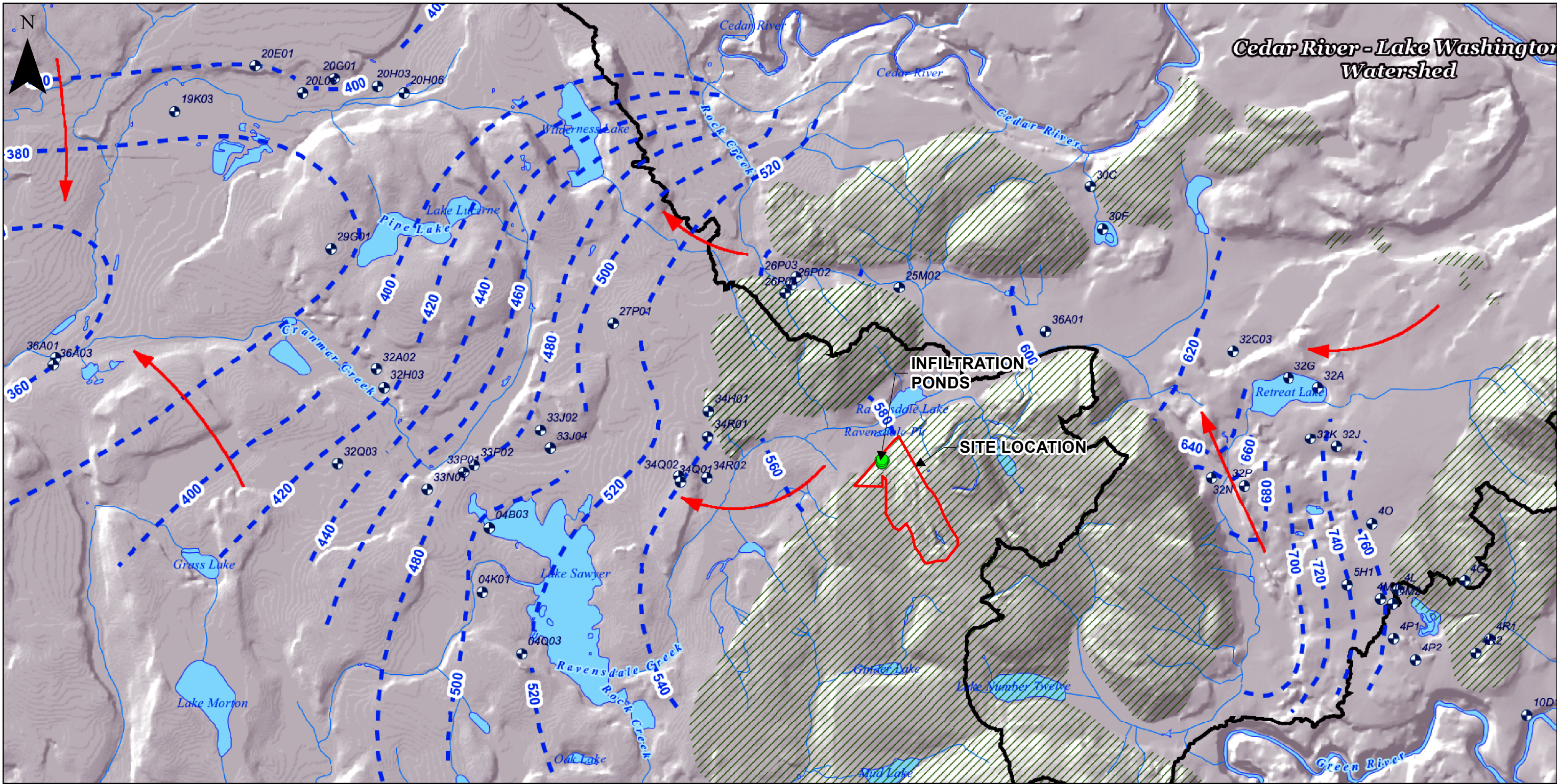
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PROJECT
REMEDIAL INVESTIGATION REPORT – RESERVE SILICA
RECLAMATION SITE

TITLE
SURFICIAL GEOLOGY AND
CROSS SECTION LOCATIONS



PROJECT	PHASE	REV.	FIGURE
GL152030402	04	A	C.4



LEGEND

- Approximate Site Boundary
- Infiltration Ponds
- Wells
- Groundwater Elevation Contours (20 ft. Intervals)
- Watershed Boundary
- Location of Low Permeability Geologic Materials (Primarily Qvt and Tbr) Considered to form Aquifer Boundary
- Inferred Groundwater Flow Direction

NOTES

1. Original source: Pacific Groundwater Group. 2022. City of Kent Wellhead Protection Program Update, External Version.

2. "Site" refers to the Remedial Investigation Study Area that includes parcels 0121069011 (Lot 5), 3622069138 (Lot 6) and 3522069046 (Baja Property)

3. All locations are approximate

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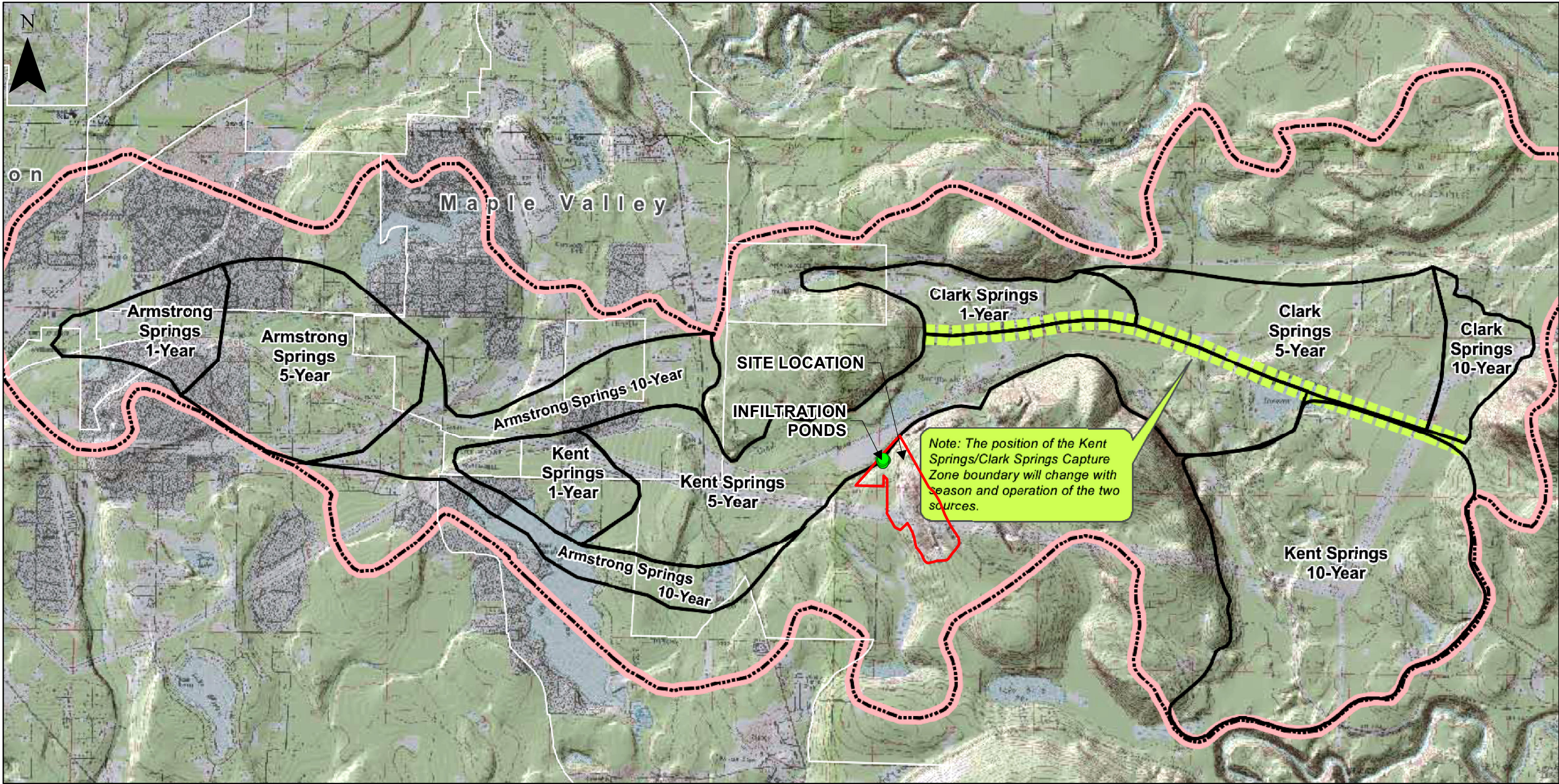


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PROJECT REMEDIAL INVESTIGATION REPORT – RESERVE SILICA RECLAMATION SITE	
TITLE GROUNDWATER ELEVATION CONTOUR MAP	
YYYY-MM-DD	2024-11-20
DESIGNED	---
PREPARED	HJ
REVIEWED	GL
APPROVED	GZ
PROJECT GL152030402	PHASE 04
REV. A	FIGURE C.5

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25mm



- LEGEND**
- Approximate Site Boundary
 - Infiltration Ponds
 - Modeled 1-, 5-, and 10-year Capture Zones (reproduced from Hart Crowser, 1996)
 - Surface Water Divide

- NOTES**
1. Original source: Pacific Groundwater Group. 2022. City of Kent Wellhead Protection Program Update, External Version.
 2. "Site" refers to the Remedial Investigation Study Area that includes parcels 0121069011 (Lot 5), 3622069138 (Lot 6) and 3522069046 (Baja Property)
 3. All locations are approximate

CLIENT HOLCIM	
PROJECT REMEDIAL INVESTIGATION REPORT – RESERVE SILICA RECLAMATION SITE	
TITLE MODELED CAPTURE ZONES AND SURFACE WATER DIVIDE MAP	
YYYY-MM-DD	2024-11-20
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PREPARED	HJ
REVIEWED	GL
APPROVED	GZ
PROJECT GL152030402	PHASE 04
REV. A	FIGURE C.6

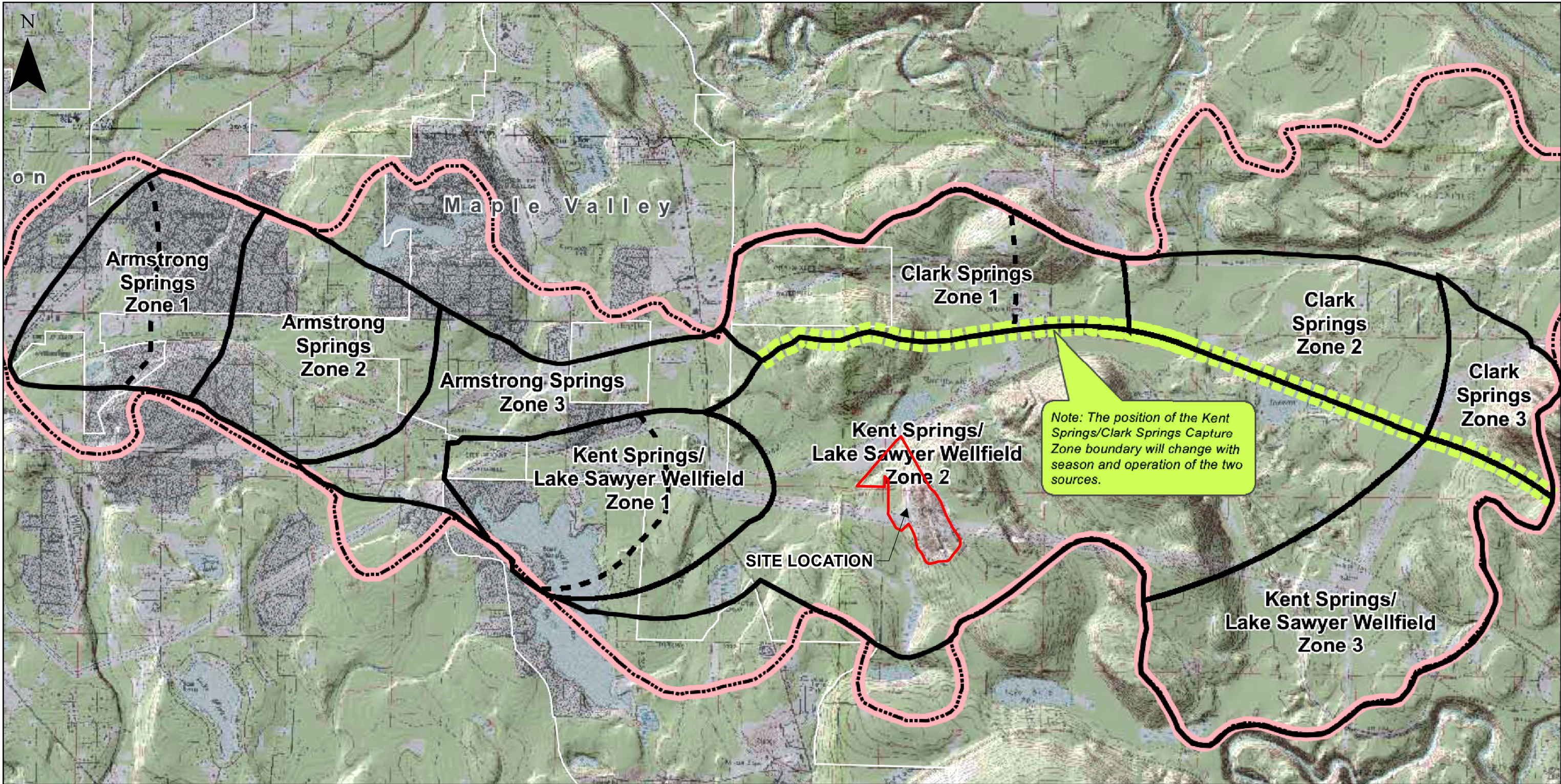
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LEGEND

- Approximate Site Boundary
- Wellhead protection areas (by zone)
(reproduced from Hart Crowser, 1996)
 - Zone 1: 1-year time of travel
 - Zone 2: 5-year time of travel
 - Zone 3: 10-year time of travel
- Six-month time of travel boundary
- Surface Water Divide

NOTES

1. Original source: Pacific Groundwater Group. 2022. City of Kent Wellhead Protection Program Update, External Version.
2. "Site" refers to the Remedial Investigation Study Area that includes parcels 0121069011 (Lot 5), 3622069138 (Lot 6) and 3522069046 (Baja Property)
3. All locations are approximate

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PROJECT
REMEDIAL INVESTIGATION REPORT – RESERVE SILICA
RECLAMATION SITE

TITLE
**WELLHEAD PROTECTION AREAS
BY ZONE**

YYYY-MM-DD	2024-11-20
DESIGNED	---
PREPARED	HJ
REVIEWED	GL
APPROVED	GZ

PROJECT
GL152030402

PHASE
04

REV.
A

FIGURE
C.7

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