Chapter 4 – Environmental Consequences
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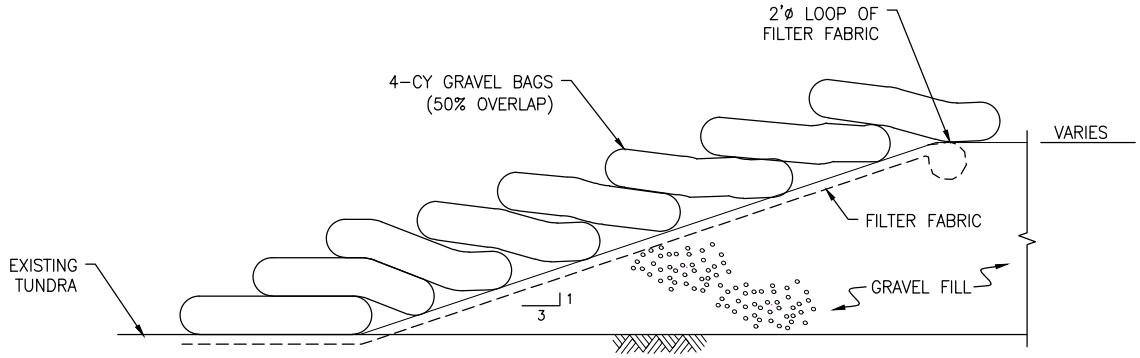

NOTE:
ALTERNATE MEANS OF SHORE PROTECTION MAY BE SUBSTITUTED FOR GEOTEXTILE GRAVEL BAGS BASED ON ADDITIONAL PLANNED STUDIES PRE–APPROVAL BY THE ENGINEER

GRAVEL BAG ARMOR SECTION

NOT TO SCALE (TYPICAL CENTRAL PAD)

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CENTRAL PAD EROSION CONTROL TYPICAL SECTION

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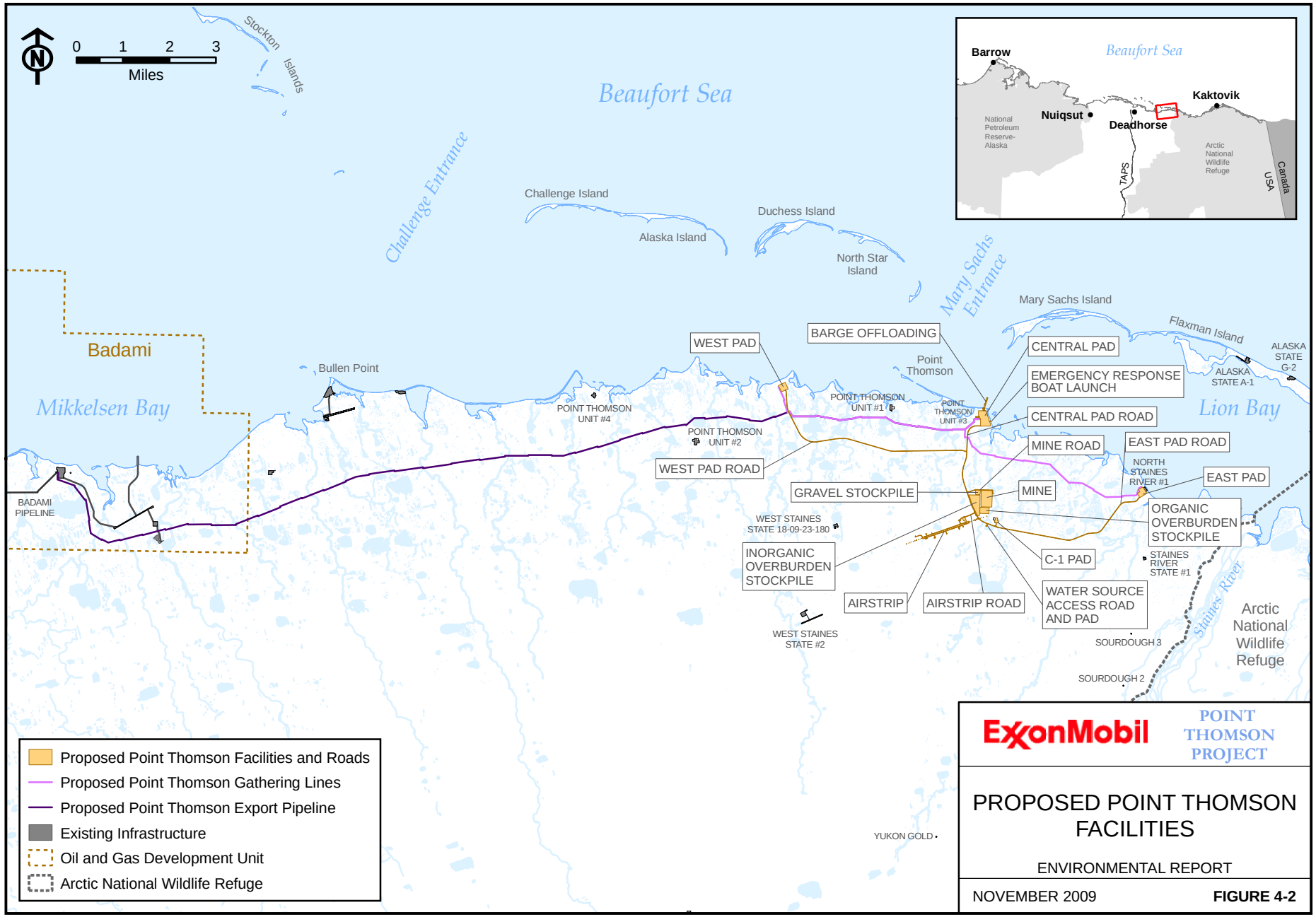

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PROPOSED POINT THOMSON FACILITIES

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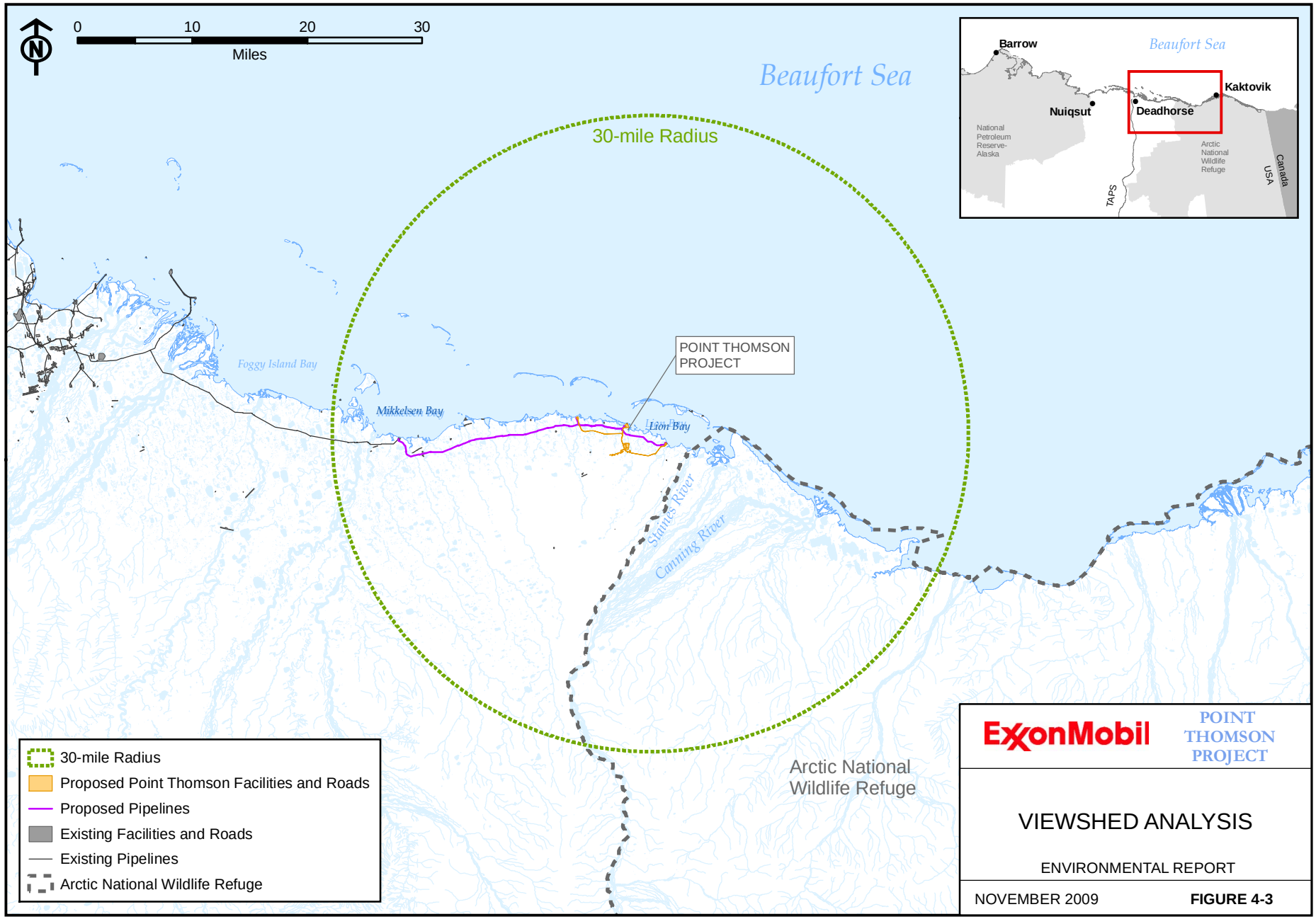
0
10
20
30
Miles
Beaufort Sea
30-mile Radius
POINT THOMSON PROJECT
Foggy Island Bay
Mikkelsen Bay
Lion Bay
Staines River
Canning River
Arctic National Wildlife Refuge
Barrow
Beaufort Sea
Kaktovik
Nuiqsut
Deadhorse
National Petroleum Reserve-Alaska
Arctic National Wildlife Refuge
TAPS
Canada
USA
30-mile Radius
Proposed Point Thomson Facilities and Roads
Proposed Pipelines
Existing Facilities and Roads
Existing Pipelines
Arctic National Wildlife Refuge
ExxonMobil
POINT THOMSON PROJECT
VIEWSHED ANALYSIS
ENVIRONMENTAL REPORT
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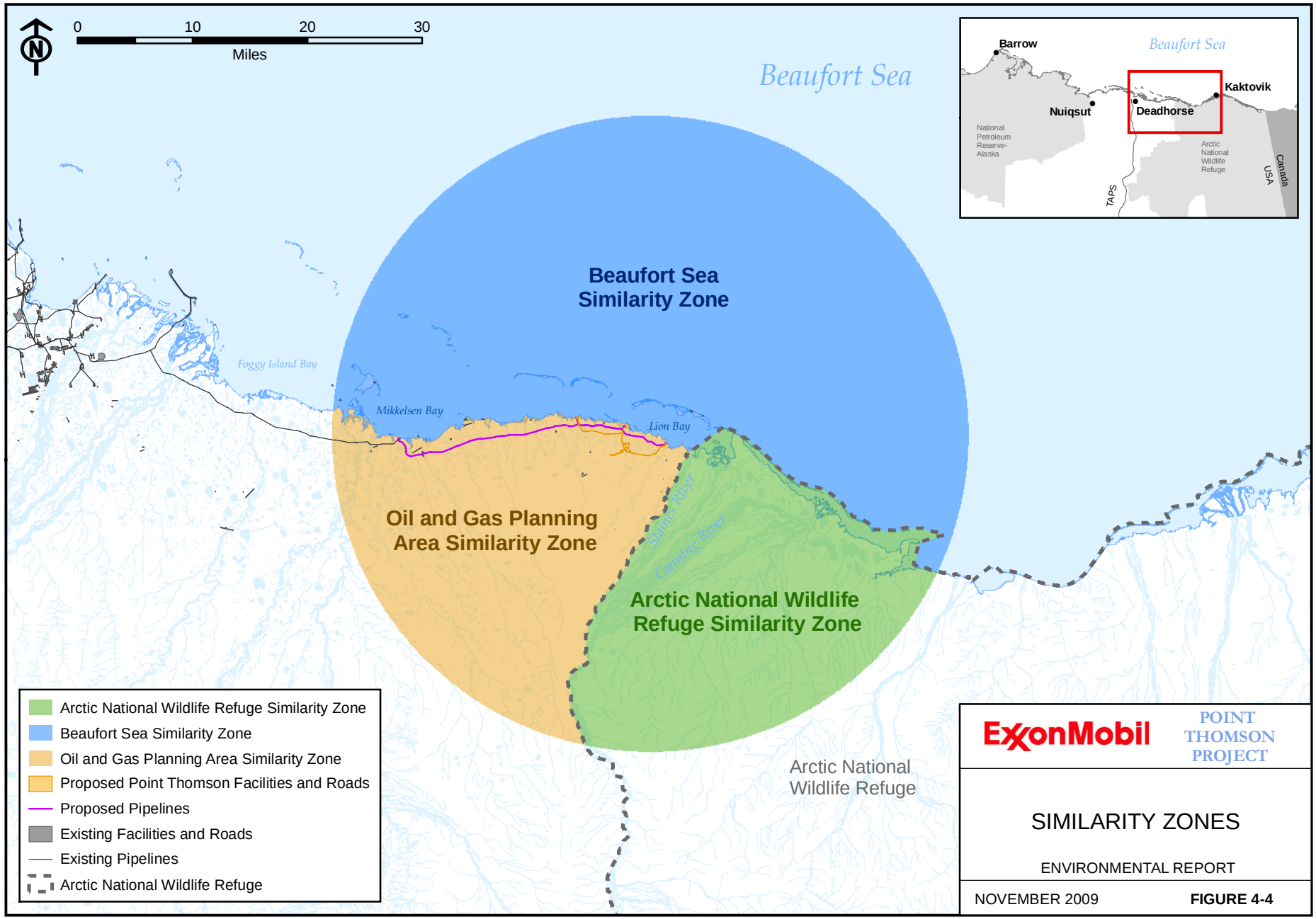
FIGURE 4-3
X:\ExxonMobil Pt Thomson Project\GIS\mxd\ER4-3_ursanc_er_viewshed_analysis_102809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Barrow
Beaufort Sea
Kaktovik
Nuiqsut
Deadhorse
National Petroleum Reserve-Alaska
Arctic National Wildlife Refuge
Canada
USA
TAPS
Beaufort Sea Similarity Zone
Foggy Island Bay
Mikkelsen Bay
Lion Bay
Oil and Gas Planning Area Similarity Zone
Staines River
Canning River
Arctic National Wildlife Refuge Similarity Zone
Arctic National Wildlife Refuge
Arctic National Wildlife Refuge Similarity Zone
Beaufort Sea Similarity Zone
Oil and Gas Planning Area Similarity Zone
Proposed Point Thomson Facilities and Roads
Proposed Pipelines
Existing Facilities and Roads
Existing Pipelines
Arctic National Wildlife Refuge
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POINT THOMSON PROJECT
SIMILARITY ZONES
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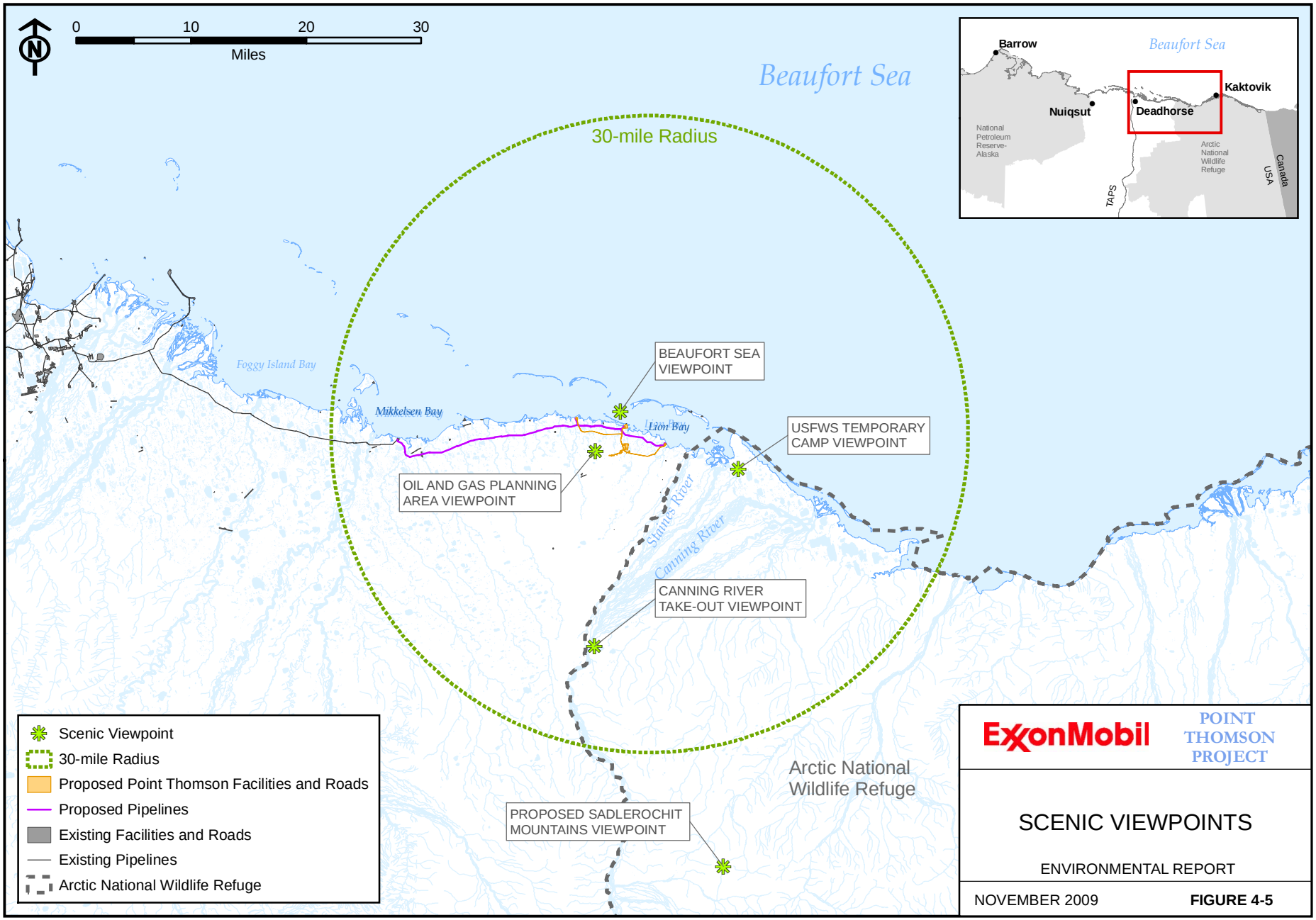
FIGURE 4-4
X:\ExxonMobil Pt Thomson Project\GIS\mxd\ER4-4_ursanc_er_similarity_zones_102809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30-mile Radius
Barrow
Beaufort Sea
Kaktovik
Nuiqsut
Deadhorse
National Petroleum Reserve-Alaska
Arctic National Wildlife Refuge
Canada
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TAPS
Foggy Island Bay
Mikkelsen Bay
Lion Bay
Staines River
Canning River
BEAUFORT SEA VIEWPOINT
USFWS TEMPORARY CAMP VIEWPOINT
OIL AND GAS PLANNING AREA VIEWPOINT
CANNING RIVER TAKE-OUT VIEWPOINT
PROPOSED SADLEROCHIT MOUNTAINS VIEWPOINT
Arctic National Wildlife Refuge
Scenic Viewpoint
30-mile Radius
Proposed Point Thomson Facilities and Roads
Proposed Pipelines
Existing Facilities and Roads
Existing Pipelines
Arctic National Wildlife Refuge
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POINT THOMSON PROJECT
SCENIC VIEWPOINTS
ENVIRONMENTAL REPORT
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FIGURE 4-5
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OBLIQUE VIEW OF CENTRAL PAD AREA LOOKING EAST

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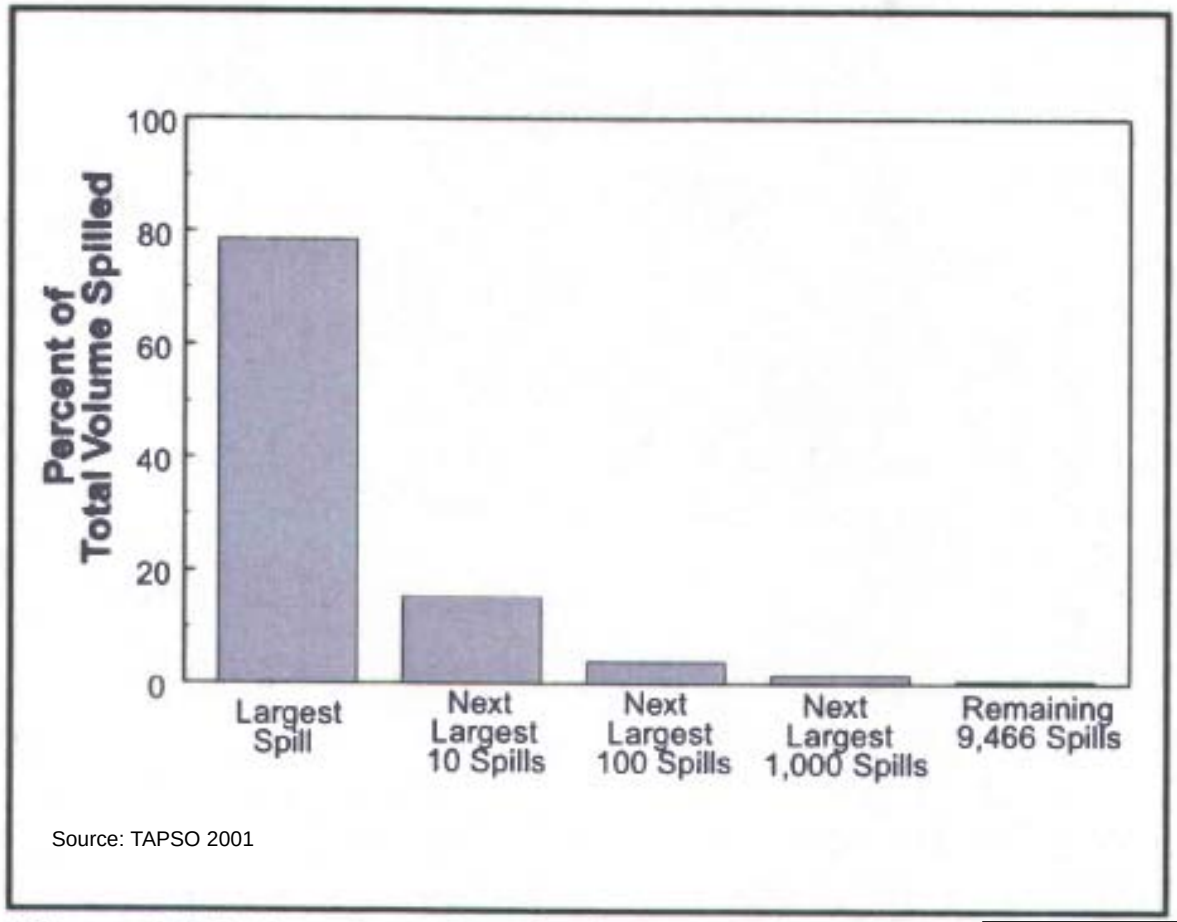

Source: TAPSO 2001

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FRACTION OF TOTAL VOLUME SPILLED (CRUDE AND PRODUCT) ACCOUNTED FOR BY LARGEST SPILLS

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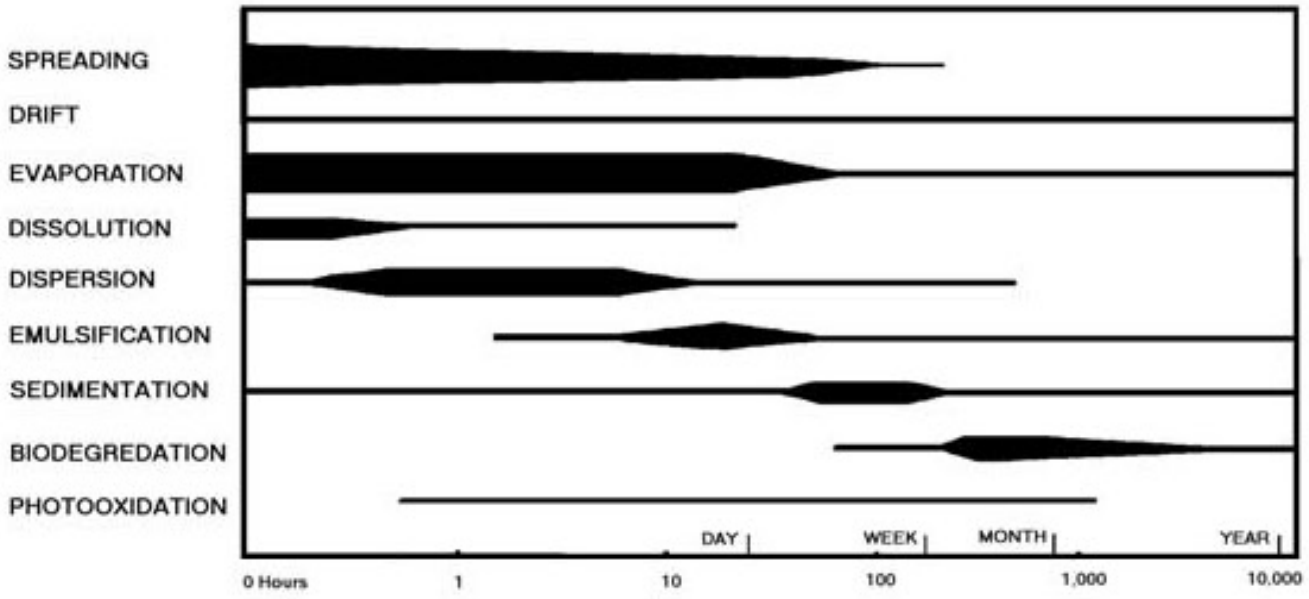

Source: Huegenin 1996

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RELATIVE IMPORTANCE OF WEATHERING PROCESSES

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X:\ExxonMobil Pt Thomson Proj\ectGIS\mxd\ER4-8_ursanc_er_importance_of_weathering_102609.mxd