ᓄᓇᕗᒻ ᐊᐸᑎᓕᓇᐅᑲᓂᐧ ᑲᑎᒪᐅᖏᑦᑎᒍᑦ ᑐᑦᓂᖅᑎᒍᑦ ᖃᐅᔨᓴᕐᓂᖅ #125719

Assessment of trace metals contamination in marine sediments near Kugluktuk

ᑐᑲᓂᖅᑎᑕᐅᔪᖅ ᖁᓕᓴᕐᓂᖅ:	New
ᐱᓕᓇᐊᓇᓴᐅᔪᒪᔨᑦ ᖁᓕᓴᕐᓂᖅ:	Scientific Research
ᐅᑦᓗᖏᑦ ᑐᑲᓂᖅᑎᑎᓕᐊᓂᐅᑦ:	6/24/2022 3:29:26 PM
Period of operation:	from 0001-01-01 to 0001-01-01
ᑲᔪᓂᑲᐃᓴᐅᓂᐊᕐᓂᕆᐅᔪᐅᑦ:	from 0001-01-01 to 0001-01-01
ᐱᓕᓇᐊᖏᑭᒋᔪᖅ:	Camille Brice Université du Québec à Rimouski 300 Allée des Ursulines Rimouski Québec G5L 3A1 Canada ᐅᖏᓪᓗᐅᑎᑦ: 5148062394, ᓯᑲᔨᓄᑦ:

ᑐᓴᐅᒪᓂᖅᓴᖅ

ᖃᓄᐃᑦᑐᑎᓂᒃ ᐱᓕᕆᔨᖃᖅᓯᐅᕆᔨᒋᓂᒃ

ᖃᓄᖅᓱᓇᑎᑐᑦ: The proposed project is part of a PhD project at UQAR, partly funded by the Northern Scientific Training Program of Polar Knowledge Canada. The PhD project is an assessment of trace metals contamination in marine sediment from the Canadian Arctic Archipelago (CAA), with a special interest for areas close to northern communities. It will provide baseline information on the CAA seafloor chemical composition and will help to determine the ecological risk associated to trace metals contamination. Data collected for the proposed project and resulting information will provide baseline geochemical data for coastal surface sediments from Kugluktuk, which will help to distinguish between natural concentrations of potentially toxic elements and anthropogenic contamination. In the future, these geochemical data can then help federal government agencies with assessing environmental risk and setting regulatory levels of pollutants in coastal areas near Kugluktuk.Rest of the description is an attached file.

ᐅᐃᐦᑎᑐᑦ: Le projet proposé fait partie d'un projet de doctorat qui s'intéresse à la présence de métaux traces dans les sédiments marins de l'Arctique canadien. Le volet présenté dans le cadre du projet proposé s'intéresse spécialement à la contamination à proximité de communautés.

ᐃᓄᒃᑎᑐᑦ: The project is taking place in Kitikmeot, therefore the description is in English and Inuinnaqtun. Short description is provide in french.

Inuinnaqtun: Tamna havakhautit havakhikpaktunik havakatigikpaktunik ilauyuk aah phD Ilihakhimakpaktunik Iniktikhutik Havakhutik havakhautait UQAR ILIHAKVIKYUAKVIK ILIHAKHIMAKPAKTUNIK INIKHUUTIK IHILHAKVIK, ilangalu tuutkikhaktauvuktunik talvunakukhugit havkahautit Tunungani Havakvit Ihiviuktit Nalukhunginamik Naunaitkutakhunik Havagiblugit Hilamiutanit Ilihaktithimakpaktunik Ilihautinik Ilihaktitaiyut Havakhautit talvani havakvit Tunungani Kauhimayauvuktunik Pitkuhiktukpaktunik Kanatami. Tamna havakhautit phD Ilihakhimakpaktunik Iniktikhutik Havakhutik havakhautait havakhimayunik tuutkikhaiblutik nalvukhiukhuugit huvikakgiakhaniklu imak pikariakaagiakhaniklu huluumailgunik hinaanit iihiviuktauvuktuk havagiblugit naunaitkutakhunik imaakaknit ataanitlu ikaalguinit taryuup naunaitkutakhunik havakpaktunik talvunga Kanatami Taryumi Tunungani Hilaryuami Hingnaanginiklu (CAA), pinging aah aliagibluugit havagiyauvuktunik nunaani talvani tunungani nunalingnilu. Pilugit havagilugit ikayutikhunik tuukihigiarutikhunik tahapkunani Taryumi Tunungani Hilaryuami Hingnaanginiklu CAA taryumi ataanginit huluumailgukakgiakhainik ikaakukariakhaniklu tahapkunani havagiyauyunik ikayutauhunguyunik nalautakgutauvuktunik hilaamiutanik hila haluumaikpagiakhanik havagiblugit naunaiyainikmun kayaknaktunik atadjuutauvuktunik nalvukhiunikmun ihiviukhugit huvilhukariakhainik haalumailgunit. Havakpaktunik naunaitkutakhunik titikgaktauvuktunik katitiktauvuktunik havagiyauvuktuukhunik naunaitkutakhuniklu tukhigiarutinik havagiblugit tuutkikhaiyukhunik havakviuvuktukhunik hilaamiutanik humi kanukgilidjutivuktunik nunaani imakmiutaniklu naunaitkutakhunik hignaanginik taryumi kanginit taryuup imaa ataanginiklu taryuup nunaanit kangnitaungani kangnilguani Kugluktuk, ikayutaulutik ilitukgiyauvuktuukhunik ilidjuhinik hliaamiutanik nauvuktunik ilaani haluumaikpakmut imakaknit ilingukpaktuniklu ilaani nauyungnaikpaktunik nunaani haluumailgunit haluumailgunit ikaakunitlu. Kakugu ilaani, tapkuat havagiyauvuktunik hliaryuami ihiviukhuugit naunaitkutakhunik ikayutauhunguuyut tahapkunanilu atanguyauluaktunik atanit havakvit kavamait havakviuvuktunik pihimayunik tuutkikhaiblutik hilryaumi hilmamiutanik kayaknaktunik pivuktuniklu havagiblugit kakungukgaangut nalautakgutauvuktunik havagiblugit haluumaigunit haalumailguit taryumi hingnaanginik kungituangani Kanilgumi Kugluktumi.Rest of description is an attached file.

Personnel

Personnel on site: 2

Days on site: 3

Total Person days: 6
Operations Phase: from 2022-08-08 to 2022-08-11

ᐱᓪᓗᐊᓗᒃᑐᐅᓂᐊᖅᑐᑦ

ᓇᒥ	ᖃᓄᐃᓕᒋᑎᑦ ᐱᓪᓗᐊᖅᓂᓂᐊᖅᐸ	ᑭᓱᑦ ᓄᓇᖅᑯᒋᓂ	ᑐᓴᐅᒪᔨᓱᓴᑦ ᓄᓇᐅᑦ ᖃᑐᓴᐅᓪᓗᐊᖅᓂᐅᖅᑭᑦᑐᓂᓕᖅ	ᐃᑦᓴᖅᓂᑕᖅᓂᕐᒪᐅᐊᓂᐅᖅᐸ ᐃᓄᖅᓄᑦ ᓇᔨᖅᑕᐅᖅᓂᕐᒪᓂᓕᓄ ᑕᐃᑦᓭᒪᓂᑐᖅᐅᓪᓚᖅ	ᖃᓄᖅᓂᓂᖅᐸᖅ ᓄᓇᓪᑭᐅᔨᐅᔪᖅ ᐊᒻᒪᓗ ᓴᓪᒥᑲᖅᓯᐊᐅᓂᓕᓄ ᓭᓇᓄᑦ
New project geometry	Scientific/International Polar Year Research	Crown	Not relevant	Not relevant	Sampling marine sediment near Kugluktuk community. THe sampling will take place along Kugluktuk coast.

ᓄᓇᓪᐅᑦ ᐃᓪᐅᑎᖅᑕᐅᓂᖅᓚ ᓄᓇᓵᓪᓗ ᐊᐱᑐᑐᖅᓭᒪᐅᑎᓂᖅᓚᓄᑦ ᐃᑲᔪᑕᐅᔪᓐᓇᖅᑐᑦ

ᓄᓇᓪᑭᔨᖅ	ᐊᑎᑦ	ᑲᑐᔾᔨᐊᖅᑎᑎᑭᔨᖅ	ᖃᓄᖅᑎᑕᐅᓪᓚᐅᖅᑭᑦᑐᖅ ᑐᓴᐅᒪᔨᓱᓴᑦ ᓄᓇᓪᑭᐅᔨᐅᔪᖅ
ᖃᐃᓪᓗᖅᑐᖅ	Kimberley Young	Hamlet of Kugluktuk	2022-04-28
ᖃᐃᓪᓗᖅᑐᖅ	Ralph Kownak	Inuit Heritage Trust	2022-05-02
ᖃᐃᓪᓗᖅᑐᖅ	Sylvie Leblanc	Government of Nunavut- Culture and Heritage	2022-05-09
ᖃᐃᓪᓗᖅᑐᖅ	NA	Hunters and Trappers Organization of Kugluktuk	2022-05-18

ᓕᐃᓴᓐᓂᑦ ᐱᒍᖏᓐᓄᐅᑎ ᐊᖏᕐᕋᐅᓂᒃᑯᑦ ᑎᑎᕋᓕᒥᑦ

ᓇᒃᑭᑲᖏᓐᓂᒃ ᐱᓕᓇᓴᒃᓴᐅᓂᐊᖅᑐᑦ ᑎᑎᕋᓕᒥᑦ:

Kitikmeot

ᓕᐃᓴᓐᓂᑦ ᐱᒍᖏᓐᓄᐅᑎ ᐊᖏᕐᕋᐅᓂᒃᑯᑦ

ᑲᓀᒪᑭᔨᐅᔪᑦ ᐊᐃᒃᑐᑐᕐᓂᖏᓐᓂᒃᓂᓕ ᒪᓕᑦᓯᒃᖏᓐᓇᓂᒃ ᐱᕐᔾᔨᓯᒃᖏᓐᓇᓂᓗ ᖃᒪᓕᒃ ᐱᓇᖏᓐᓄᑦᑎᐅᓂᒃ ᓕᐃᓴᓐᓂᓴᓇᓂᓗ ᖃᓇᓂᒃᑲᓐᓂᑦ	ᖁᓂᐃᐃᑦᑐᓕᓇᐅᓀᓐᓂᒃ ᓕᐃᓴᓐᓂᑦᑎᑭᑐᑎᐅᔪᖅ ᐱᔪᖏᓐᓄᐅᑎᑭᑦᑎᐅᔪᖅ ᐊᖏᕐᕋᐅᓂᒃᑯᑦᓯᓂᑦ	ᐃᓐᓇ ᖁᓂᐃᐃᓕᖏᓐᓇᑭᒃ	ᐅᓂᒃ ᑐᓂᒥ/ ᑐᓂᖏᓐᑐᑎᐅᓇᐅᑎᓂᖏᓐᓇᓂᖅ	ᑭᓚᖏᓐᓇᖏᓐᓇᓕᒃ
ᓄᓇᕗᒻᒥ ᖁᓂᐅᔨᓴᖏᑐᓕᓇᔨᓐᓄᑦ	Authorization for conducting physical and natural scientific research in Nunavut.	Applied, Decision Pending		

Project transportation types

Transportation Type	ᓯᓇᒧᑦ ᐊᑐᓴᐅᓂᐊᖏᓐᓇᕐᓂᖅ	Length of Use
Air	Plane	

Project accomodation types

ᓄᓇᓕᑭᔪᖏᓐᓇᒃ

ᐊᑐᒪᐅᓂᐊᖅᑐᖅ

ᐱᖃᑦ ᐊᖏᕐᕋᖅ ᐊᑐᖅᑕᐅᓂᐅᓴᖅ ᐃᓕᖅᓱᐅᑎᓄᑦᑎᑦ ᐃᓄᑦᑕᐃᑦ, ᒥᑦᓄᐊᕈᑎᑦ, ᖃᖏᒪᑕᓱᖅ, ᓄᓇᓱᐅᑦ ᐊᓱᖏᑦᓗ

ᐊᖏᕐᕋᖅ ᐱᖃᑦ ᐊᑐᒪᐅᓂᐊᖅᑐᖅ ᖃᖏᓄᐃᑦᑐᖅ	ᖃᖏᑦᓱᐅᕐᓂᑦ	ᐊᖏᕐᓂᖏᑦ - ᐳᖅᑐᓂᖏᑦ	ᓱᓇᒧᑦ ᐊᑐᒪᐅᓂᐊᖅᐸ
Van Veen grab sampler	1	35 x 20 x 20 cm	Collect surface sediment samples
Boat	1	18’	To reach sampling stations from Kugluktuk

ᑎᑎᕆᐅᓱᓇᓕᒍ ᐅᖅᓱᓴᕐᓴᐃᑦ ᐊᑦᑕᓇᖅᑐᖅᑕᓂᓪᓗ ᐊᑐᖅᑕᐅᓂᐊᕐᓂᖏᑦ

ᓱᓇᒧᑦ ᐅᖅᓱᓴᕐᓴᕐᓗᐅᐊᖅ ᐊᑐᒪᐅᓂᐊᖅᐸ	ᖃᖏᐃᑦᑐᓴᕐᓇᐅᓀᑦ ᐅᖅᓱᓴᕐᓴᕐᓗᐅᐊᖅ	ᖃᖏᑦᓱᐅᓀᖅᐅᑎᑦ ᐅᖅᓱᓴᕐᓴᖃᖅᐅᑎᑦ	ᐃᓴᕐᓴᐅᑦ ᐃᒪᓕᖅᑎᑎᑦᓇᓂᖏᓐᓄᑦ	ᑲᑎᒪᓕᒍ	ᐃᓴᕐᓴᐃᑦ ᐊᒥᓱᓂᖏᑦ	ᓱᓇᒧᑦ ᐊᑐᒪᐅᓂᐊᖅᐸ
Diesel	fuel	1	1	1	Liters	Diesel for the boat, quantity depending on the boat

ᐃᒪᖅ ᐊᑐᖅᑕᐅᓱᒧᑦᑐᖅ

ᐅᓪᓗ ᑕᒧᖅ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᖅ	ᖃᖏᓂᖅ ᐃᒥᖅᑕᖃᖅᑕᕐᓂᐊᖅᐸᑦ	ᓄᑭᑦ ᐃᒥᖅᑕᖃᖅᑕᕐᓂᐊᖅᐸᑦ
0		

ᐊᑲᑕᔪᑦ

ᐊᑲᑕᔪᓪᓗᓂᐊᕐᓂᖅ

ᐱᓕᓗᐊᓗᖅᐳᐅᔾᔨᒪᔨᒍᑦ ᐱᓕᓗᐊᓗᖅᐳᐅᓂᐊᖅᑐᖅ	ᖃᖅᓄᐃᑦᑐᖅ ᐊᑲᑕᔪᖅ	ᖃᖅᓄᑎᒋᑦ ᐊᑲᑕᔪᑦ ᓴᖅᑭᐊᓂᐊᖅᑐᓗᐳᐅᕐᑦ	ᖃᖅᓄᖅ ᐊᑲᑕᖅᑕᐅᓂᐊᖅᐸ	ᓴᓗᒪᖅᓴᐅᑎᑲᓴᖅᓱᓂᐅᓂᐊᖅᑐᑦ
Information is not available				

ᐊᔪᑎᒥᐅᑕᓱᑦᑐᑦ ᐊᑲᑐᖅᑕᐅᓯᒪᔪᑦ

There will be no resulting risks to the health, safety or livelihoods of Nunavut residents and there will be no impacts on the environment.

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

SECTION B1: Project Info

SECTION B2: Exploration Activity

SECTION B3: Geosciences

SECTION B4: Drilling

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

SECTION B12: Mill

SECTION C1: Pits

SECTION D1: Facility

SECTION D2: Facility Construction

SECTION D3: Facility Operation

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

SECTION I1: Municipal Development

ᐃᓐᓇ ᐊᕿᑎᐅᕽ ᖃᓄᐃᑦᑐᑦᓯᓇᐅᓂᖅ: ᓄᓇᐅᕽ ᖃᓄᐃᑦᑐᓂᖅ

ᐃᓐᓇ ᐊᕿᑎᐅᕽ ᖃᓄᐃᑦᑐᑦᓯᓇᐅᓂᖅ: ᐅᒪᔨᖅᑕᖃᖅᓂᖅ

ᐃᓐᓇ ᐊᕿᑎᐅᕽ ᖃᓄᐃᑦᑐᑦᓯᓇᐅᓂᖅ: ᐃᓄᓕᓇᓂᕆᔨᖅᑎᑦ-ᐱᕿᑦᓕᐊᔨᓕᓇᓂᕆᔨᖅᑎᑦ

Miscellaneous Project Information

ᓄᓕᓀᐃᖅᑕᐅᓂᖅᑎᑦ ᐊᖏᖅᑕᐅᐅᓪᒪᔨᑦ ᖃᓄᐃᑦᑐᓂᖅᑎᑦ ᕿᓯᐅᒥᔭᓪᓗᖅᑕᐅᓂᐊᖅᓂᖅᑎᑦᓗ

Cumulative Effects

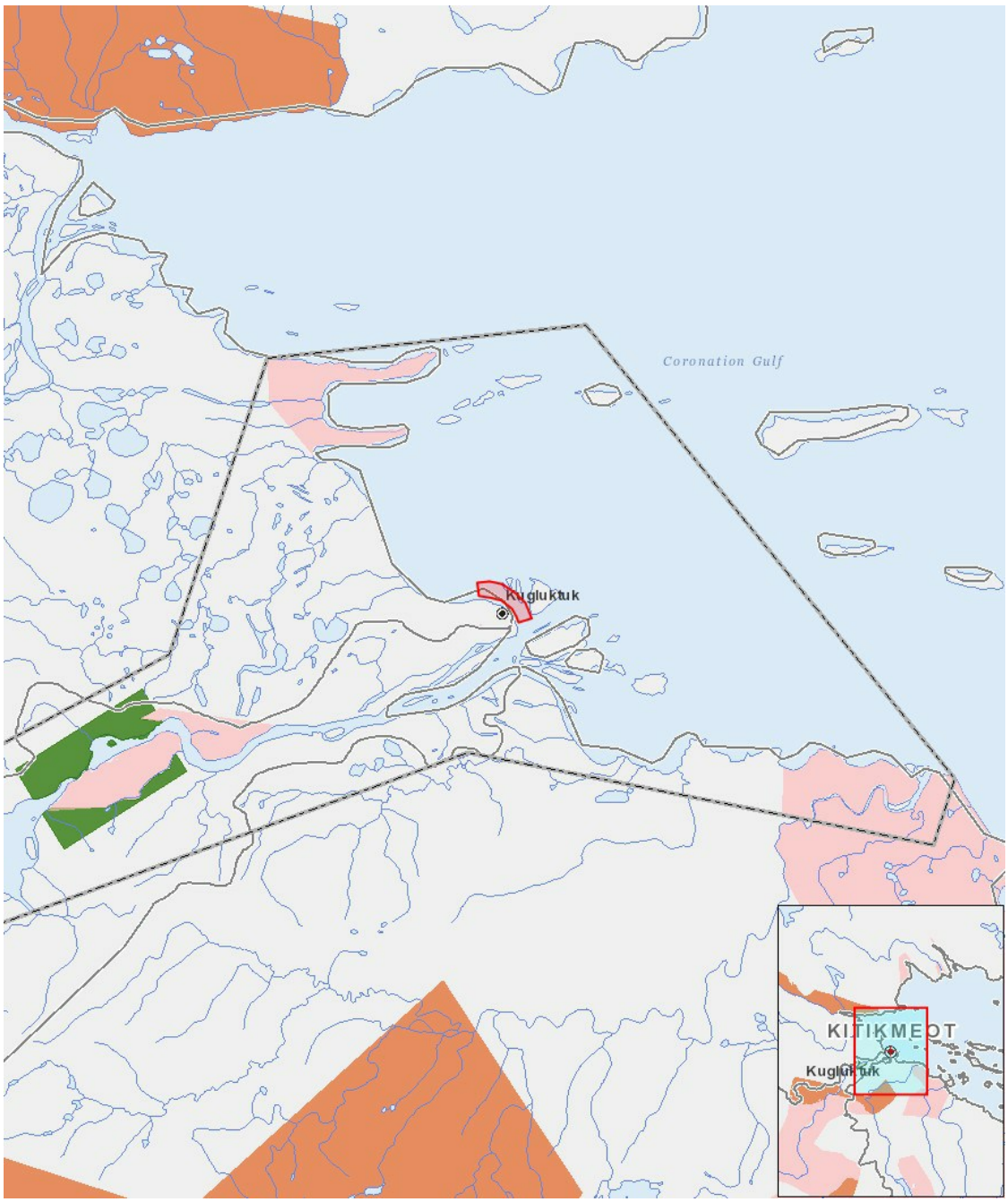
Impacts

ᓄᓇᓕᐃᖅᑕᐅᓂᖅᑎᑦ ᐊᕐᑎᑎᒥᐅᑕᓂᑐᑦ ᐊᑲᑐᖅᑕᐅᓯᒪᔪᑦ

	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
ᖃᓄᐃᖅ																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
ᐅᓴᖅᑕᕐᓂᖅ																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
ᐃᑐᑦᑎᓇᓂᖅ																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

(P = ᐊᑲᐅᓴᕈᑎᔨᓐᓄᖅᑐᑦ, N = ᐊᑲᐅᖅᑭᔨᔪᑕᐅᔨᓐᓄᖅᑐᑦ ᕿᓚᐅᒥᔨᔪᓂᖅᑐᖅᑕᐅᔨᓐᓄᖅᑐᑦ ᓚᓗ, M = ᐊᑲᐅᖅᑭᔨᔪᑕᐅᔨᓐᓄᖅᑐᑦ ᕿᓚᐅᒥᔨᔪᓂᖅᑐᖅᑕᐅᔨᓐᓄᖅᑐᑦ ᓚᓗ, U = ᖁᑲᐅᕈᒪᓐᓄᖅᑐᖅ)

ᓇᒋᒪᖏᕆᖅ ᐱᓕᓇᐊᓇᓴᐅᔪᖅ



List of Project Geometries

1	polygon	New project geometry