ODYSSEY MARINE EXPLORATION, INC ON THEIR OWN BEHALF AND ON BEHALF OF EXPLORACIONES OCEÁNICAS S. de R.L. de C.V.

and

Claimant

UNITED MEXICAN STATES

Respondent

NOTICE OF INTENT TO SUBMIT A CLAIM TO ARBITRATION UNDER CHAPTER ELEVEN OF THE NORTH AMERICAN FREE TRADE AGREEMENT

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Christophe Bondy

Rachel Thorn

Counsel for the Claimant

- Pursuant to Articles 1116, 1117 and 1119 of the North American Free Trade Agreement (NAFTA), and with a view to settling this dispute amicably through consultations in accordance with Article 1118 of NAFTA, Odyssey Marine Exploration, Inc. (Odyssey) on its own behalf and on behalf of the Mexican enterprise it controls, Exploraciones Oceánicas, S. de R. L. de C.V. (ExO), (collectively, the Claimant) Chapter Eleven (NOI) to the United Mexican States (Mexico).
- Using its world leading underwater exploration and scientific expertise, Odyssey identified one of the most substantial phosphate sand deposits in the world and continental shelf, the Oceánica deposit (the Oceánica deposit or Oceánica) resource of up to 1 billion tonnes of ore, making it one of the largest such identified
- Odyssey and ExO have spent over and more than six years planning demonstrated based upon years of on-site investigation and world-class scientific and no material impact on flora and fauna.
- 4. Oceánica is capable of substantially supplying the fertilizer needs of North America

only would the Claimant earn significant returns from the development of the deposit, but Mexico would also reap major financial and strategic rewards. Within Mexico, the Oceánica project has the potential to generate hundreds of collection and fertilizer processing jobs. In addition, it would help secure Mexico's food self-sufficiency by providing a ready supply of locally generated phosphate-based fertilizer. It would indirectly generate thousands of Mexican agricultural and food processing jobs. Moreover, Oceánica would generate millions of dollars in annual royalties to Mexico, and indirect economic development.

Unfortunately, despite the significant benefits the project will bring the country, the Mexican Government has blocked Oceánica from moving forward, in breach of its own laws and the obligations owed to Odyssey and to ExO under NAFTA. Under the Medio Ambiente y Recursos Naturales (Ministry of the Environment and of Natural Opposition that have no scientific basis, failed to carry out a review consistent with its and to disparage the Oceánica project.

- 6. The highest administrative tribunal of Mexico has confirmed the illegal and arbitrary nature of SEMARNAT's actions. On 21 March 2018 the Mexican Federal Administrative Tribunal (the **Tribunal**) annulled SEMARNAT's initial decision to deny project approval, finding that the agency's actions were arbitrary, unfounded and beyond its statutory powers. The Tribunal remanded the issue to SEMARNAT, and ordered it to provide the scientific and factual support justifying its decision, failing which the agency should approve the project. SEMARNAT blatantly disregarded the Tribunal order and on 12 October 2018 simply reinstated its original (annulled) decision, without any further factual or scientific justification.
- SEMARNAT's contempt of the law and continued arbitrary and discriminatory conduct 7. have destroyed the value of the Claimant's investment in Mexico. But for SEMARNAT's measures, which are attributable to Mexico under international law, the Oceánica project would already be up and running and generating substantial benefits both to the Claimant and to Mexico and its citizens. Instead, Odyssey and ExO have been forced to turn to international law for compensation.
- The Claimant with this Notice seeks formal consultations under Article 1118 of 8. NAFTA. Should those consultations fail, it will proceed to seek recovery in full of all losses and damages incurred both by it and by ExO, through NAFTA Chapter Eleven

Name and Addresses of the Disputing Investor and of its Mexican Enterprise 1. 9.

- Odyssey submits this NOI on its own behalf as a qualifying Investor under Article 1116 and under Article 1117 on behalf of ExO, a Mexican enterprise that Odyssey majority owns and controls. 10.
- Odyssey is a US (Nevada) corporation, publicly traded on NASDAQ (OMEX), with its principal place of business registered at 5215 W Laurel Street, Tampa, Florida, USA 11.
- Odyssey, through subsidiaries, owns a majority interest in and controls ExO. ExO is a Mexican company constituted in March 2012 as the vehicle for Odyssey's investment in Mexico. ExO's principal place of business is Emerson No. 150, Suite 503, Colonia Polanco, Delegación Miguel Hidalgo, Mexico, D.F. ExO holds the mining concessions for the Oceánica deposit.
- Odyssey has invested in Mexico both through its ownership of ExO, and through its 12. ongoing financial and technical contributions to ensure the success of the Oceánica project.
- Since 2010 Odyssey has financed the research leading to the identification of the 13. Oceánica concession area, as well as the application for the concession; sponsored the subsequent multi-year prospecting to identify the zones most suited for development and to collect environmental impact assessment data; and performed the technical and scientific analysis required to support the sustainable development plans and environmental impact assessments needed for the Oceánica project to go forward. These overall sunk costs have risen to more than

- These costs have including providing the funding required for ExO to pay mining 14. concession maintenance fees to the Mexican Government. These have been payable on an escalating scale, rising to an annual fee of roughly for an overall total since 2012 of nearly
- Odyssey's ownership and control of ExO qualifies it as an investor in Mexico under 15. Article 1139 of NAFTA Chapter Eleven. Moreover, over the past eight years Odyssey has committed substantial capital and other resources in Mexico in pursuit of the Oceánica project, including through the deployment of financing, ships, equipment, and personnel. Odyssey's interest in ExO entitles Odyssey to a share in its income or profits and to a share of the value of its assets upon dissolution. Through ExO, Odyssey has an interest in an intangible property in the form of the license to exploit the Oceánica deposit.

11. Legal Representatives and Service of Documents 16.

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Issues and Factual Basis for the Claim III.

This claim concerns a Mexican State agency and its senior leadership that through 18. manifestly arbitrary, discriminatory and illegal measures have frustrated the potential of a world-class resource development project, otherwise poised to generate substantial returns to the Claimant and enormous economic and geopolitical benefits to Mexico. But for these illegal measures, Odyssey and ExO now would already be developing Oceánica, generating significant returns and contributing to the Mexican economy and to Mexican food security. Instead, in violation of Articles 1102, 1105(1) and Article 1110 of NAFTA Chapter Eleven, the Claimant's investment has been rendered worthless, all as set out below.

- Odyssey is a global leader in underwater marine exploration and development (i) 19.
 - Founded in 1994, Odyssey is a global leader in deep-ocean survey, scientific investigation, exploration and the development of seabed resources. The company relies on its leading team of professionals, scientists and technicians who use the most up-to-date methods and technology to discover, study and develop deep-ocean seabed assets in an environmentally responsible manner. Odyssey is committed to responsible science-based development and to sharing the benefits of its work with local communities and with host economies. Working in partnership with both private clients and with States, Odyssey's discovery, validation and development of subsea mineral deposits provides access to critical resources globally.
- Odyssey has deployed its expertise in sites around the world, including in mineral 20. exploration, geophysical, geotechnical environmental and scientific research in the waters of Mexico, New Zealand, Fiji, Papua New Guinea, Tonga, Solomon Islands and Vanuatu. Over the past 20 years Odyssey has mapped more than 28,000 m³ of seabed and spent more than 16,000 hours diving at deep-ocean sites, using advanced robotic technology applying the highest scientific standards.
- Odyssey applies principles of environmental stewardship and sustainability in all of its 21. work. All of Odyssey's operations are managed and executed to exceed global standards for environmental practices and processes, and aligned with International Seabed Authority (ISA) standards. The company has a history of collaboration with international organizations such as the New Zealand Institute of Water and Atmospheric Research (NIWA) to supplement the Institute's database. It maintains relationships with research groups around the world, supplying scientific data and biological samples for academic research. 22.
- Odyssey sought to bring its special expertise and best practices to the development of the Oceánica project, as set out below.

Odyssey first identified a likely development area (ii) 23.

- Starting in 2010, Odyssey undertook initial scientific research, analysis and project design to explore the development potential of phosphate deposits off the coast of
- Mexico presented a range of attractions for phosphate resource development, 24. including favorable coastal, geological and oceanographic conditions, as well as proximity to the enormous Mexican, US and Canadian agricultural markets, with their significant need for phosphate-based fertilizers. 25.
- Based upon its research, Odyssey determined that such deposits were likely to be present under the Pacific Ocean seabed on Mexico's continental shelf.
- By 2012, Odyssey had identified an area likely to contain a deposit in the Pacific 26. Ocean, offshore from the coast of Baja California Sur.

- Odyssey then incorporated ExO and obtained a concession (iii) 27.
 - Odyssey's local Mexican associates caused ExO to be incorporated in 2012 and Odyssey then directed the newly incorporated entity to apply for a mining concession. 28.
 - Through ExO, and with the assistance of local mine engineering support and legal counsel, Odyssey prepared and in 2012 filed its seabed mining concession request to the Dirección General de Minas (DGM), the responsible agency within the Secretaría 29.
 - On 28 June 2012 ExO successfully obtained from DGM a 50-year mining concession extending over 2,680 km² of seabed on the Mexican continental shelf in respect of the Oceánica deposit. 30.
- On 29 April 2014, DGM granted ExO further mining concessions to the north and to the south of Oceánica, increasing the total mining concession area to 3,029 km².

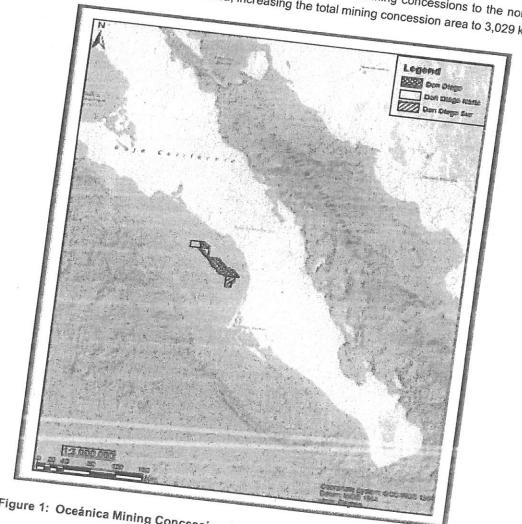


Figure 1: Oceánica Mining Concession Areas Including North and South Extensions

Odyssey spent nearly two years prospecting the Oceánica concession and collecting (iv)

relevant data

- Using its chartered 100 meter research vessel the Dorado Discovery, Odyssey in the 31. latter part of 2012 and throughout 2013 carried out an extensive prospecting and sampling campaign in the Oceánica mining concession area. Its purpose was to more precisely identify and characterize the overall concession environment and to collect the raw data required to prepare an environmentally-appropriate development plan and impact assessment.
- In mid-2012, Odyssey approached SEMARNAT seeking the approvals required to 32. conduct these prospecting activities.1 that Odyssey's planned prospecting operations could proceed. In September 2012, SEMARNAT confirmed
- Over the next year and a half, Odyssey sponsored five separate 30- to 40- day 33. cruises on the Dorado Discovery, staffed with a 40-member crew (comprised of engineers, seamen, other ship staff, and up to 20 technical personnel) and equipped with a wide range of survey, oceanographic and geological equipment Each cruise cost Odyssey more than
- Dorado Discovery extracted multiple core samples from across the seabed floor in the 34. Oceánica concession area, from which Odyssey's team derived thousands of mineral samples. The team also collected hundreds of water samples, biological samples and other environmental data in the concession area generally, in the targeted work areas, and in the larger regional environmental system in which the Oceánica concession resides. All of this information was destined to feed into Odyssey's detailed mapping, resource assessment, project planning and environmental due diligence exercise.
- In all of this work, Odyssey followed international standards and complied with 35. Mexican environmental law. 36.
- These nearly two years of work ultimately led Odyssey to identify an area within the Oceánica concession that combined highest concentration of phosphates with geological positioning favorable to development, and where naturally low biodiversity (reflecting biologically restrictive deep-sea conditions) would minimize any potential environmental impacts.
- Within the concession Odyssey identified one of the world's richest phosphate (v) 37.
 - Oceánica is a deposit of black phosphate-rich sands located in the Pacific Ocean seabed approximately 40 km from the coast in the Gulf of Ulloa, in Baja California Sur, on Mexico's continental shelf, in the embayment between Punta Abreus in the north and Puerto San Carlos in the south. Oceánica lies in Mexico's Exclusive Economic Zone (**EEZ**), at an average depth of 80 meters.

This was consistent with SEMARNAT's authority under the Ley General Del Equilibro Ecológico y La Protección al Ambiente (LGEEPA) and the Reglamento De La Ley General Del Equilibro Ecológico Y la Protección Al Ambiente En Materia De Evaluation Del Impacto Ambiental. 5017297 v1

- Based on current resource assessments, it is estimated that the Oceánica deposit 38. contains 588.3 million tonnes of phosphate ore, with average in-situ amount of phosphorus pentoxide (P₂O₅) in the range of 18.1%, an average overburden of merely 1.14 meters and an average ore thickness of 2.80 meters.
- This makes the Oceánica deposit amongst the largest and highest in-situ grade 39. identified phosphate deposits in the world, and the only such marine resource found in Mexico. Developed in accordance with Odyssey's plans, Oceánica is large enough to meet most of the fertilizer needs of North America for the next 100 years.

Development of the Oceánica deposit would bring huge benefits to Mexico (vi) 40.

- Phosphate is one of the key components of multi-nutrient finished fertilizers, which in turn are an essential element of modern agricultural production. Close to three quarters of the total amount of available phosphorous exploitable worldwide is used in
- Phosphates are natural compounds that contain phosphorous and other materials 41. Phosphorous is present in every living organism, including in the skeletal structures of vertebrates and in the shells of certain invertebrates. Phosphate is a non-renewable resource that cannot be manufactured. There is no synthetic substitute to replace it.
- Mexican land-based phosphate supplies cannot meet the country's fertilizer needs. 42. Mexico consumes an estimated 2.4 million tonnes of phosphate rock each year. To satisfy the nation's annual consumption, Mexico currently imports about 1 million tonnes of phosphate, principally from Morocco, Ukraine and Peru. Given the high cost of these imports, estimates indicate that around 74% of Mexico's crops are underfertilized. Statistics generated by Mexico's National Institute of Statistics and Geology (INEGI) in 2013 point to an increasing need to import phosphate into Mexico, leaving the country exposed to foreign supply limitations, and negatively impacting Mexico's
- Recognizing the importance of Mexican food self-sufficiency, recently inaugurated 43. President Andrés Manuel López Obrador vowed in December 2018 to meet Mexico's fertilizer needs entirely from domestic sources. Yet without domestic access to the required inputs - most notably phosphate - Mexico will continue to be dependent on foreign fertilizer. To achieve the President's stated goal, non-terrestrial sources like Oceánica must be developed.
- What is more, development of the Oceánica deposit would go further and transform 44. Mexico into a phosphate-exporting nation, generating significant economic and social benefits. It would not only create jobs associated with phosphate extraction and fertilizer production, but also access to cheaper and more readily available fertilizer would contribute to substantial agricultural development, indirectly generating thousands of jobs and potentially millions of dollars in economic benefits. It would also substantially strengthen Mexico's food security.

- Odyssey generated a state-of-the-art development plan and environmental impact (vii) assessment 45.
 - From the start, Odyssey was sensitive to the environmental needs of the project and had factored into its plans the development of careful environmental impact assessments and environmentally appropriate development strategies. Having obtained the mining concession and identified the area to be developed, ExO and Odyssey next spent two years working on an environmentally sustainable development plan and environmental impact assessment (MIA-R), to be submitted for approval by SEMARNAT in accordance with Mexican law.
- Odyssey's extensive environmental surveys and planning resulted in both a sound 46. understanding of the general and more specific ecosystem in the area to be developed, and a strong technical program for developing the site in an environmentally sensitive and responsible manner. Odyssey's scientific team included experts in marine dredging, plume modelling, sound propagation, ecotoxicology, phosphate science and engineering, among others.
- The result of this work was a project development plan that follows best practices, the 47. most innovative and efficient mitigation measures and a complete program of adaptive management and monitoring, as set out below.

ExO's dredging techniques ensure minimal disturbance

- Odyssey and ExO based their Oceánica development plans on the widely-studied 48. and proven Trailer Suction Hopper Dredger (TSHD) seabed dredging process. TSHD dredging techniques are already used all over the world, including in Mexican waters, and comply with international environmental, social and fisheries impact regulations
- To execute this work ExO secured the partnership of Boskalis, a Dutch company 49. recognized worldwide for its dredging expertise, and its subsidiary dredging company in Mexico called Dragamex. Over the past several decades Boskalis has executed at least 219 dredging projects in Mexican waters. The Oceánica project dredging technology had been approved by the Mexican government for use in virtually all of
- The seabed in the Oceánica project area is composed of fine sediment, with little or 50. no structure or relief. The TSHD ship deploys a suction draghead over the seafloor at a slow walking pace, slowly suctioning phosphate-laden sediment up to the ship's hold. The main ship or a companion ship are equipped with hydrocyclone and filtration devices which extract the black phosphate-laden sands as material is raised. The remaining clean material (comprised principally of non-phosphate-laden sand, broken shells and other natural materials) is then piped back down to the seabed floor, where it is placed within previously-dredged furrows in an irregular fashion. The latter technique is proven to facilitate biomass regeneration and indeed to promote the most biodiverse floral and faunal populations. ExO also planned to reserve tracks of untouched seabed within the area being exploited as "set-aside" furrows between areas of dredging. Again, this has been demonstrated to accelerate biomass

- The Oceánica deposit lies at a considerable seabed depth on average, 80 meters 51. below the sea's surface. The low water temperatures and diminished light at these depths naturally limit the presence of any living organisms on the seabed and in adjacent waters, compared with shallower waters in the region. There is little vegetation, and only a limited population of small worms and crustaceans. These organisms are characterized by their rapid regeneration capacity. Tiny worms present in the silty seabed floor have relatively short life-cycles and following physical disturbance rapidly recolonize and recover. Small crustaceans also present on the seabed in the area are highly mobile and actively migrate back into areas as soon as operations such as dredging have ceased. Scientific studies show that the recolonization of worm and crustacean populations in analogous circumstances occurs within months of cessation of dredging activity.
- Compared with conventional terrestrial mining, seabed dredging has reduced 52. infrastructure requirements, does not require the relocation of communities, has no impact on potable water supplies, requires little or no removal of overlying material, has an overall lower carbon footprint, a better occupational health and safety record, and leaves minimal impact on the seabed topography.

ExO included a range of precautionary management and mitigation measures

- ExO incorporated a range of precautionary mitigation measures in its dredging plans, 53. which were all designed to minimize the dispersal of sediment during dredging or upon the return of sediment to the seabed. This was to be accomplished by carrying and returning sand and other unused materials directly from and back to the seabed, well below the sea stratum containing most phytoplankton and other organisms. ExO also planned to use a "green valve" mechanism, which encourages sediment to sink by limiting air input into extracted materials.
- 54. As part of the environmental impact assessment, Odyssey retained one of the world's leading oceanographic consultancies to undertake a series of complex project models. These scientists confirmed that with ExO's proposed mitigation measures, the area of seabed affected by the operations would be confined to a zone not exceeding 200 meters or less from the point of discharge and confined strictly within the boundaries of previously dredged strips.

ExO's proposed process is chemical-free and non-toxic

ExO's planned TSHD process is chemical-free and operates exclusively through 55. mechanical extraction. With Odyssey's assistance, ExO also tested the toxicity levels of the phosphate sediments themselves to verify that the dredging and return of sediment would not release toxic substances. These tests confirmed there was no evidence of acute toxicity either in sediments dredged from the site or from the seawater when vigorously mixed with the excess materials that would be returned to the seabed floor.

- Annual work is to take place over a tiny portion of the overall (D) concession
- To further mitigate impacts and allow for regeneration, ExO planned that the dredging 56 operations would only occur over a tiny portion of the overall concession area in any given year. The annual area affected by dredging would be a strip approximately 3.5 km long and about 200 to 300 meters wide. This amounts to approximately 1 km² in total each year, out of a total concession area of 3,029 km².

The project is located and designed for minimal impact on major

- The project was also designed to avoid material impacts on marine mammals, notably 57. whales and macrobiota such as the loggerhead turtle.
- The seabed at Oceánica is unsuited as a habitat for turtles. The Oceánica project 58. takes place at depths of 80 meters where the water is cold, in the range of 14-16 degrees Celsius. It is much deeper and in much colder water than where the loggerhead turtle usually lives. Indeed, the loggerhead turtle is mainly confined to surface waters of less than 20 meters depth and is susceptible to "cold stunning" if exposed to temperatures below 16 degrees Celsius. Furthermore, the seabed habitat at the Oceánica site does not support food resources suitable for turtles. The project is specifically designed to avoid any impacts on potential food resources in the water column and pelagic food web. The relatively sparse community of small invertebrates (mainly worms and small crustaceans) present at Oceánica depths are unsuitable as a food resource for turtles. Loggerheads feed on large prey items in the surface waters, including fish bycatch discards and the pelagic red crab, which forms dense swarms in surface waters during periods of upwelling. Oceánica is located at depths well below these crabs' typical biosphere.
- The project also does not interfere with or impact upon cetaceans. Whale migration 59. routes are in still deeper waters located to the west of the development site. Given the location of the project and its very limited annual footprint of 1 km², there is no possibility of impacts on conservation-significant resources on the coastline (which is 40 km to the east of the Oceánica deposit) or on the coastal lagoons of San Ignacio and Bahía Magdalena (which are almost 100 km from the site).

ExO proposed further precautionary measures

- While the risk to turtles from dredging at the Oceánica site is extremely low, ExO's 60. plan also incorporated the use of well-proven turtle exclusion devices (notably tickler chains) and deflection equipment regularly used at other sites, as a further precautionary measure. These devices have the effect of gently moving turtles away from the dredging site as the ship slowly advances. Even in shallower waters where turtle densities are high, such techniques have proven to keep turtle losses by 61.
- In other words, ExO's deep-sea dredging plan would have a negligible impact on

ExO has nonetheless committed to recording any turtles entrained during dredging 62. operations, so that additional mitigation measures can be implemented in the unlikely event that such measures are necessary.

There is no impact on fisheries

The Oceánica project as designed also protects local fisheries. The area targeted for 63. development is in a low-fish zone 40 km from the coast, only sporadically frequented by either commercial or smaller local fisheries. Given the naturally low numbers of bottom-dwelling fish in the sector and low catch numbers, fisherman have historically avoided the water column directly above the Oceánica deposit – they refer to the area as "Los Lodos" or "the silts". Regardless, as a precaution ExO agreed it would cede a significant portion of the concession in the area to the east of Oceánica, precluding any overlap with the legal concessions of regional fisheries in these shallower waters. Further, ExO agreed that fishing ships would be allowed to fish in all areas of the Oceánica concession, with the exception of a 500 meters berth around extraction vessels while they are in operation. Moreover, while any impact on fisheries was designed to be minimal or non-existent, ExO's proposal nonetheless included a mechanism to compensate fisheries for any losses linked to the dredging operation.

There is no impact on tourism

Finally, Odyssey and ExO designed the project to avoid any impact on tourism. Since 64. the project operations are planned 40 km from the coast, they would be invisible from the shoreline and have no impacts on coastline amenities. Oceánica also does not require adjacent shore-based facilities which might otherwise affect the Baja California Sur area leisure and tourism industry.

ExO undertook to monitor going forward

In addition to its environmental mitigation and restorative measures, ExO further 65. undertook to conduct extensive ongoing environmental monitoring, including through the presence of independent government appointed on-board observers, to identify, quantify and report any signs of project impacts and to address them going forward. It also undertook to engage in public environmental education and a "corporate good neighbor" policy to assist in developing programs to promote local communities and fisheries development, even though the dredging operation will not affect them.

(viii) ExO filed its MIA-R with SEMARNAT

- On 2 September 2014, after nearly three years of effort, Odyssey and ExO filed the 66. MIA-R with SEMARNAT, which set out their plans for development and environmental impact assessment and mitigation strategies, all as described above.
- The MIA-R was a 4600-page document comprised of eight chapters, with 15 annexes 67. and hundreds of technical and scientific references. The MIA-R was based on contributions from experts and consulting institutions in the fields of geology, oceanography, marine biology, marine ecosystems management, and environmental science specifically as it relates to dredging. It included a 30-page non-technical summary drawing on the MIA-R's main conclusions.

- Odyssey and ExO acted in good faith and in the expectation that SEMARNAT would 68. evaluate their proposal on its merits, based upon scientific analysis and following the
- Unfortunately, they experienced the exact opposite. 69.
- SEMARNAT has statutory responsibility under Mexican law to review and provide 70. environmental approvals for mineral development projects in Mexican territory. SEMARNAT exercises that authority under the general direction of its principal Secretary, and with the support of various sub-entities that address specific aspects of the approvals process, including project evaluation, coordination with other agencies, legal review, and guardianship of specific environmental mandates.
- SEMARNAT's review process at least, the way the regulatory oversight is supposed 71. to take place – is set out in official Guidelines. The process set out in the Guidelines is intended to support a systematic, evidence and science-based evaluation of the specific project to be considered, in its particular environment, including through initial project definition, breakdown of the project into separate phases, description of the relevant environment, consideration of the most significant environmental issues, specific impact assessments, consideration of alternatives and of mitigation measures, evaluation of residual environmental impacts, and the development of
- In reality, SEMARNAT in its ultimate decision refusing approval of the project clearly 72. ignored their own legal and regulatory mandate and requirements.
- Both ExO and Odyssey were keen to ensure that the Mexican Government and public 73. would appreciate the anticipated benefits of the project, the extent of their environmental due diligence and mitigation measures, and the limited environmental impact of the project. ExO consistently responded to any issues SEMARNAT raised with accurate and relevant scientific data and technical information and analysis, and took part in two full rounds of public hearings on the project.
- The result of all of this work bore fruit, at least at the technical level At final meetings 74. in early 2016, SEMARNAT officials confirmed that all of their technical queries had been satisfied. 75.
- Unfortunately, SEMARNAT's lead official Rafael Pacchiano intervened and killed the project, as set out below.

(ix)Secretary Pacchiano Alamán was hostile to the project 76.

Rafael Pacchiano Alamán was appointed Secretary of SEMARNAT by Mexican President Enrique Peña Nieto on 27 August 2015. Prior to this appointment, he had since December 2012 been Under Secretary for Environmental Enforcement at SEMARNAT, and before that between 2009 and 2012 was federal deputy in Mexico's 61st Congress, representing the Ecologist Green Party of Mexico (Partido Verde

- As titular head of SEMARNAT since August 2015, Mr Pacchiano had ultimate 77.
- In his previous role as Under Secretary at SEMARNAT, Mr. Pacchiano had raised 78. only one substantive concern regarding the Oceánica project which related to its potential impact on whale migrations. ExO had addressed that concern in good faith, demonstrating that the proposed project location avoided by a considerable distance any whale migration paths. ExO further committed to substantial precautionary mitigation measures, undertaking to suspend dredging activities altogether during the whale migration season. Having received these explanations in a face-to-face meeting with ExO representatives in 2015, Mr Pacchiano declared himself satisfied that his concern had properly been addressed.
- But in March 2016, as the deadline for issuance of SEMARNAT's approval 79. approached, Secretary Pacchiano performed a volte-face. He convened another meeting with ExO representatives and advised ExO that in light of other recent environmental controversies (none of which had anything to do with the Oceánica project) his political position was precarious. He said that he was unwilling to be seen as approving a project such as Oceánica, despite its merits. He therefore directed ExO to withdraw its MIA-R application and to resubmit it at some later (undetermined) date, threatening that if ExO did not withdraw the application voluntarily, he would find some reason to deny it.
- ExO and Odyssey had expected that the Oceánica project would be evaluated on its 80. scientific merits. They dedicated six years of good faith efforts to achieve that result. What they instead encountered was a process arbitrarily dictated to facilitate the career ends of a high State official. 81.
- ExO and Odyssey were convinced of the merits of their application and that there were no legitimate grounds for refusal. They decided to maintain their request and not
- ExO's decision to maintain its application left SEMARNAT scrambling for a reason to 82.

(x) SEMARNAT refused to grant approval on spurious grounds 83.

- On 7 April 2016, shortly after ExO's last meeting with Secretary Pacchiano, SEMARNAT made good on Secretary Pacchiano's threat and issued a decision refusing environmental permission for the Oceánica project. The SEMARNAT report as drafted confirmed that the decision was politically motivated, and not grounded in any objective facts or analysis. The report was of such poor quality it was evident it had been produced in a rush between the March 2016 meeting and the April 2016 deadline. SEMARNAT's report notably ignored the specific geographic and environmental features of the Oceánica site. It also disregarded the evidence and scientific analysis ExO had provided over the past two years.
- Instead, SEMARNAT's report refused permission based upon the project's alleged 84. impact on loggerhead turtle habitat and their food source, red crabs.

- SEMARNAT's turtle and red crab rationale made no technical sense and had no basis in scientific fact. During the project evaluation phase, SEMARNAT had sought more and on their food supply, in particular asking about any potential impact on red crabs. In response, ExO provided SEMARNAT with definitive answers to these queries. As it project and do not depend for their sustenance on biological materials generated at that level. ExO further demonstrated that the project would have no influence on red crabs and the pelagic species that feed on them.
- In its refusal, SEMARNAT deliberately misinterpreted all available scientific information concerning the distribution of loggerhead turtles in the Gulf of Ulloa. Notably, it simply ignored the fact that loggerhead turtles live at depths far shallower than the planned development area. SEMARNAT's misinterpretations in turn led it to resources for loggerhead turtles. Among other things, SEMARNAT failed to consider materials, minimizing water disturbance and functioning in only a highly limited area of ExO's analysis or conclusions were incorrect.
- SEMARNAT's refusal amounted to a grave violation of its own stated procedures. In ignored and failed to address any of ExO's technical proposals, working methods, communications programs.
- Instead, SEMARNAT relied on general popular media sources and papers discussing the environmental importance of the Gulf of Ulloa more broadly. None of the sources way on the likely environmental impact of the project as conceived by Odyssey and projects in other parts of the world, employing different types of dredging, at different application to the Oceánica project.
- 89. In short, SEMARNAT's decision was quickly cobbled together to create a veneer

 90. Once public Occupation.
- Once public, SEMARNAT's refusal of 7 April 2016 had the effect of sinking Odyssey's share prices by 59% from US\$8.37 to \$3.45 per share, or a loss of market
- (xi) During the same time period SEMARNAT granted approvals to many more

 91. SEMARNAT'S seek time period or controlled by Mexican nationals
 - 91. SEMARNAT's refusal of the Oceánica project was all the more arbitrary and discriminatory because SEMARNAT has and continues to approve multiple substantial dredging projects in Mexico's waters, in far more ecologically sensitive

areas. The scale of these approved projects is enormous and the technology and process are similar to, or even less effective than, the technology that Odyssey and ExO propose to employ at Oceánica. The singular difference is that these projects all are owned or controlled by Mexican nationals. To name but a few:

- On 15 November 2013, SEMARNAT approved 38,000,000 m³ of seabed dredging, at the request of Administración Portuaria Integral de Veracruz. SEMARNAT approved the project notwithstanding that it lies within a natural protected area designated as a National Park, including areas of high environmental relevance (designated by SEMARNAT's Comisión Nacional para el Conocimiento y Uso de la Biodiversidad (CONABIO)), and despite the fact that the part of the project nearest to the shore is included in an internationallydesignated protected wetland. Unlike the silty deep-water seabed of Oceánica, with its low biodiversity, the seabed for the Veracruz project is comprised of a coral reef and a well-known habitat for loggerhead and other turtles, bottlenose dolphins, and a range of other species.
- On 16 March 2016 SEMARNAT also authorized 7,600,000 m³ of seabed dredging at the request of Power Plant Laguna Verde, which is owned and operated by Comisión Federal de Electricidad (CFE), the national electric company owned by the Mexican government. Again, this approval came despite the fact that the project is located in internationally protected wetland designated by CONABIO to be of environmental relevance. The area for this SEMARNAT approved dredging project includes habitat for species that are endangered and at risk of extinction, including the sea parrot turtle and the hawksbill turtle.
- In addition, on 7 September 2018 SEMARNAT authorized over 1,400,000 m³ of seabed dredging at the request of Gas y Petroquímica de Occidente S.A de C.V. Here again, the approval came despite the project covering several areas that SEMARNAT itself designated as of high environmental relevance. The project area and neighboring areas include the habitat and presence of several varieties of sea turtles, bottlenose dolphins and sea lions.
- All of these projects that have been approved by SEMARNAT are owned and 92. controlled by Mexican nationals or Mexican State agencies.

ExO appealed from SEMARNAT's initial refusal (xii)

- On 29 April 2016 ExO petitioned SEMARNAT to reconsider its initial refusal of 7 April, 93. in accordance with Mexican law.
- In support of its application, in June 2016 ExO filed a complete supplementary 94. technical report setting out in detail the flaws and scientific and factual inaccuracies in the SEMARNAT decision, the ways in which SEMARNAT failed to consider evidence, and the lack of scientific justification or relevance of the issues the agency had
- Seven months passed with no answer. Despite its statutory responsibility to provide a 95. response within 120 days, SEMARNAT simply ignored ExO's application for

- ExO then appealed to the Federal Tribunal of Administrative Justice, which annulled (xiii) SEMARNAT's decision 96.
 - On 27 January 2017 ExO sought judicial review of SEMARNAT's decision and of its failure to respond to the request for revision, before Mexico's Federal Tribunal of Administrative Justice (the Tribunal). 97.
 - Through 2017, the case went through an extensive briefing phase before the Tribunal.
 - On 21 March 2018 the Tribunal issued a ruling (notable as the first unanimous ruling 98. of this Tribunal in two decades) nullifying the original decision of SEMARNAT and ordering it to issue a new resolution within four months. A bench of eleven judges found that SEMARNAT had failed to comply with Mexican law because its decision lacked sufficient scientific justification, ignored key evidence relating to the depth and lack of environmental impacts of the operation and failed to take account of the mitigation factors put forward by ExO.
- The Tribunal directed SEMARNAT to confirm which scientific grounds and reasoning 99. justified its original decision, including specifically addressing ExO's evidence that the dredging activity in question, given its depth, would not affect the habitat of either loggerhead turtles, or their source of food. Failing that, SEMARNAT was to issue project approval.
- Secretary Pacchiano publicly asserted he would block Oceánica under any (xiv) 100.
 - At a public event on 9 September 2018, while the Tribunal-ordered response from SEMARNAT was pending, Secretary Pacchiano was asked about his position concerning the Oceánica project. His answer was unequivocal - he declared that he would "under no circumstances" agree to the Oceánica project going forward.
 - Secretary Pacchiano's statement confirmed his agency's refusal to consider the 101. Oceánica project objectively, and the continuing discriminatory and political motivation of the agency under his direction.
- SEMARNAT Issued a Second Decision which Failed to Comply with Tribunal (xv)102.
 - Secretary Pacchiano's threatened arbitrary and illegal behavior was confirmed when SEMARNAT on 12 October 2018 issued its second refusal of the Oceánica project. 103.
 - The agency already had stalled in providing any decision at all. Despite the clear directions and order from a full bench of the Tribunal, by late September – six months after the Tribunal issued its ruling - SEMARNAT had still failed to issue a new decision. Accordingly, on 4 October 2018 ExO filed a second request to the Tribunal, this time asking that the Tribunal find SEMARNAT out of time, in contempt of the Tribunal's original order and ordering the agency to issue the requested approval. 104.
 - SEMARNAT issued its second refusal only in an attempt to cut off the reviewing power of the Tribunal. In any event, the outcome was dictated in advance. In plain

contempt of the March 2018 order of the Tribunal, the second refusal issued by SEMARNAT again failed to evaluate ExO's technical proposal, scientific data and mitigation measures, or habitat restoration plans.

- 105. Instead, SEMARNAT put forward a mishmash of pretexts pulled from studies that had been developed in different contexts and that bore no relation to the actual conditions present in the project. SEMARNAT again failed to explain how its alleged concern about loggerhead turtles had any scientific merit given the depth of the Oceánica project, its minimal annual coverage, highly limited pelagic disturbance and range of precautionary mitigation measures.
- SEMARNAT deliberately publicized its refusal and made false statements that (xvi) 106.
 - SEMARNAT also deliberately sought to attract the maximum public attention to the second refusal, a departure from the agency's typical discretion in denying such permits. This clearly was deliberate and intended to score a political "win" for Secretary Pacchiano by setting him up (falsely) as a supposed environmental
 - Typically, when SEMARNAT issues a denial, its decision is communicated solely to 107. the applicant. However, in the present case SEMARNAT issued a press release dated 18 October 2018 announcing its decision to deny permission, thereby ensuring the denial received as much publicity as possible.
 - The press release SEMARNAT issued contained several materially untrue and 108. damaging statements about the Oceánica project and its alleged environmental impacts. It also falsely suggested the decision was supported by agencies that had had no involvement whatsoever in the decision, presumably in an effort to bolster the legitimacy of the decision.
- In all of these circumstances, ExO and Odyssey have lost any confidence in the good 109. faith treatment of their Oceánica project by Mexico, and have been forced to seek recourse under international law.

IV. Mexico has Breached its Obligations under NAFTA Chapter Eleven

Mexico through the actions of its agencies and legal representatives, including Secretary Pacchiano, has breached the obligations under Section A of Chapter Eleven of NAFTA, including but not limited to Article 1102 (National Treatment), Article 1105(1) (Minimum Standard of Treatment) and Article 1110 (Expropriation and Compensation).

(iv) Violation of NAFTA Article 1102

Mexico has violated NAFTA Articles 1102. This article provides that Mexico must accord U.S. investors and their investments treatment no less favorable than that it accords, in like circumstances, to its own investors with respect to the establishment, acquisition, expansion, management, conduct, operation, and sale or other disposition of investments.

In violation of these provisions, Mexico has provided more favorable treatment to its 112. own investors than to the Claimant by regularly granting environmental approvals to Mexican companies and Mexican State agencies for major dredging projects off the coast of Mexico, while refusing such permission to Oceánica. There is no regulatory justification for this disparate treatment. As demonstrated in ExO's submissions, the Oceánica site presents significantly less environmental sensitivity than do the sites of multiple other approved offshore dredging projects. Moreover, at Oceánica the Claimants propose to employ improved versions of the same technology employed by such other projects, as well as additional state-of-the-art precautionary measures

(ii) Violation of NAFTA Article 1105(1) (Minimum Standard of Treatment)

- The Mexican Government's measure amounts to a violation of NAFTA Article 1105(1) (Minimum Standard of Treatment). 114.
- Article 1105(1) provides that each Party shall accord to investments of investors of another Party treatment in accordance with international law, including fair and 115.
- The actions of the SEMARNAT agency and of Secretary Pacchiano violate the international customary minimum standard of treatment of investors in that they are manifestly arbitrary, and reflect fundamental breaches of due process in
- In particular, the refusal by SEMARNAT to consider evidence and scientific analysis in its decision making and technically absurd conclusions, together with Secretary Pacchiano's avowal to deny project approval under any circumstances, all reflect deliberate State treatment of the investment that is manifestly arbitrary and which falls far short of international minimum standards.
- SEMARNAT and Secretary Pacchiano also violated fundamental principles of due 117. process by plainly ignoring the statutory and regulatory framework for their administrative decision-making. Odyssey and ExO were in effect facing a rigged process, with decisions ordained against them in advance, due process ignored and avenues for domestic recourse frustrated by the Government and its agents.

Violation of NAFTA Article 1110 (Expropriation and Compensation) (iii) 118.

- The measures taken by the Mexican Government also amount to a violation of NAFTA Article 1110 (Expropriation and Compensation). That article provides inter alia that no Party may directly or indirectly nationalize or expropriate an investment of an investor of another Party in its territory or take a measure tantamount to nationalization or expropriation of such an investment, except (a) for a public purpose, (b) on a non-discriminatory basis, (c) in accordance of due process of law and Article 1105(1) and (d) on payment of compensation in accordance with paragraphs 2 through 6 of Article 1110.
- By arbitrarily refusing to allow the Oceánica project to move forward and instead, 119. actively frustrating it, Mexico has rendered worthless the Claimant's investment in the

Oceánica project. This substantial taking is a measure tantamount to expropriation under Article 1110.

Moreover, the measure failed to meet any of the conditions for legal expropriation 120 under Article 1110. The measure was not for a public purpose: a State cannot cloak an arbitrary measure under the mantle of its regulatory powers, as to do so would amount to an abus de droit at public international law. Mexico's measures were also discriminatory, in that they arbitrarily distinguished between the Claimant and other investors in like circumstances in Mexico. Mexico also failed to respect due process of law and Article 1105(1), through SEMARNAT and Secretary Pacchiano's manifestly arbitrary decision-making and contempt for due process. Finally, the Claimant has received no compensation to date for these losses.

V. Approximate Damages Suffered

- As a result of measures taken by the Mexican Government, Odyssey and ExO have 121. suffered losses in an amount to be fully quantified, but not less than US\$3,540,000,000.
- The principle factor in this valuation is the anticipated value to ExO of the Oceánica 122. deposit, had the enterprise been permitted to use its concessions in accordance with
- For the avoidance of any doubt, the Claimant will be requesting that full compensation 123. for all losses and damages suffered by ExO be made payable directly to ExO in accordance with NAFTA Articles 1117 and 1135(2)(b).
- 124. In addition, Odyssey and ExO have incurred expenses in excess of the pursuit of the investment in the Oceánica project, including financing multiple extensive marine research cruises deploying scientific, technical, environmental and operational crews; payment of concession maintenance fees; costs of generating a sustainable development program and the related environmental impact assessment; administrative, expert and personnel costs relating to several years of engagement with SEMARNAT in pursuit of environmental approval; costs of capital, and costs relating to attempts to defend Odyssey and ExO's rights before the Mexican Courts, as well as under NAFTA Chapter Eleven.
- Finally, Odyssey has incurred substantial financing costs in relation to its investment 125. and will seek relief for the time value of its expected return.

VI. Request for Relief

In the event that the parties to the dispute are unable to resolve this dispute through 126. consultations under Article 1118, the Claimant will request that the Arbitral Tribunal constituted in accordance with NAFTA Chapter Eleven:

- Award damages to ExO pursuant to Article 1117 and to Odyssey pursuant to Article 1116 for breaches of Articles 1102, 1105(1) and 1110 of NAFTA in an amount to be fully quantified, but not less than US\$3,540,000,000;
- Grant pre- and post-Award compound interest on the amount of damages awarded;
- Compensate the Claimant for all costs of the arbitration, as well as for their costs
 of legal representation and other related costs; and
- Grant such other relief as the Arbitral Tribunal may deem just.

Dated this 4th day of January 2019.

Respectfully submitted,

Columba Lee Bring

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